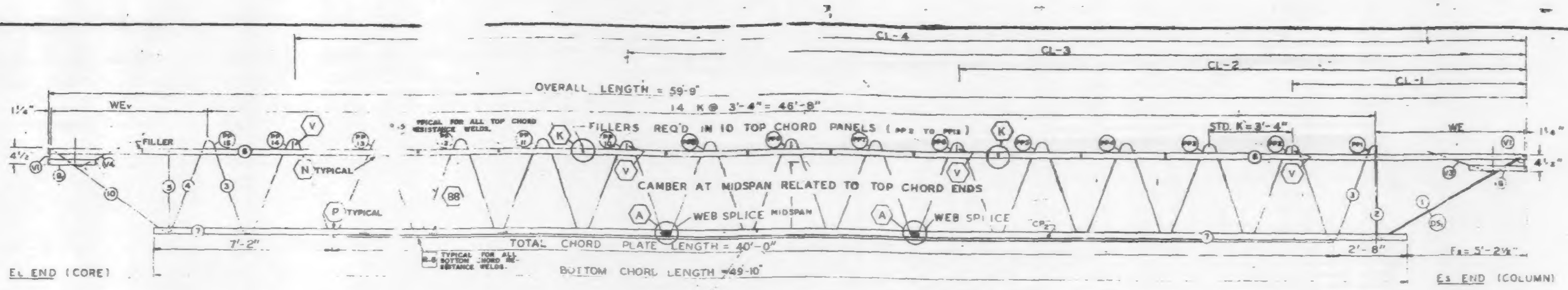
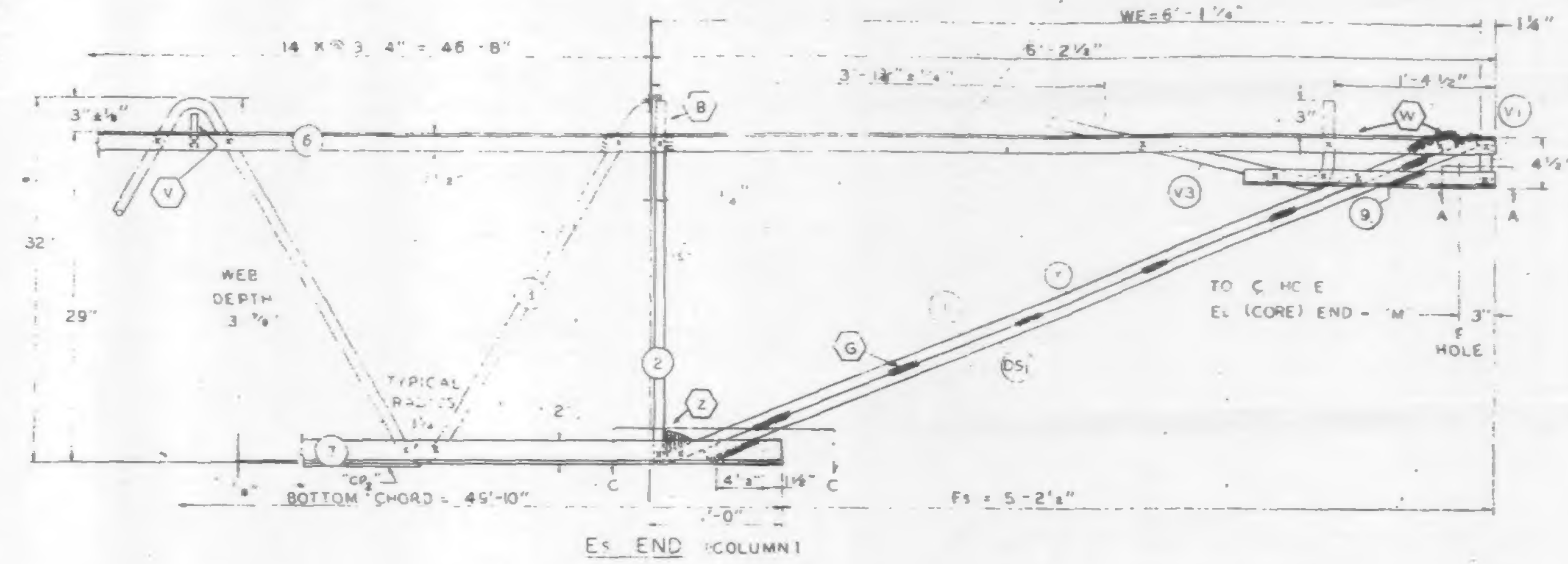
1000-1099

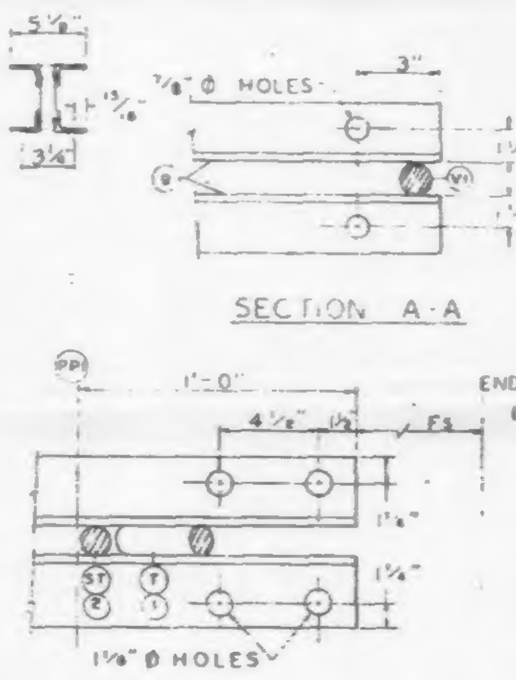
WTCI-181-LERA



TRUSS ELEVATION



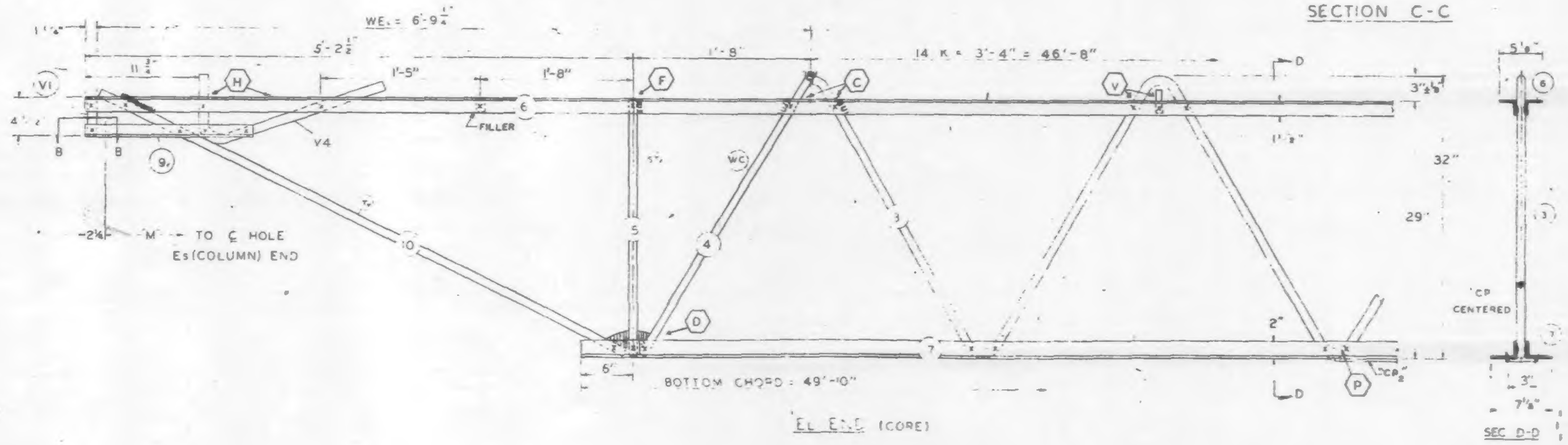
Es END (COLUMN)



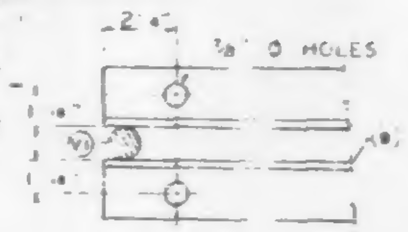
ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS.
AND AT BOTTOM CHORD WEB SPLICES ( ).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R-6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2⅛"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	[illegible] 7/8"	± 1/4"



EL END (CORE)



SECTION B-B

NO	DATE	REVISION	BY
2	6-22-68	GENERAL	T.M.C.
1	5-27-68	T LENGTH, WELD, CHORD PLATE	T.M.C.

REF DRWGS

7-A81-4	4-15-68
7-A8-52	2-15-68
7-A81-53	4-1-68
7-A84-50 & 50 2	10-20-67
7-A83-2	1-3-68
7-A84-50 5	10-20-67

PAINT
LACLEDE ELECTROCOAT
REG. NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7A-599	6	A242	2"x1½"x.31	59'-9"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	59'-3¾"	4	1.09"	3"	CP2	A36	¼x3	40'-0"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7A-599	9	A242	2"x1½"x.25	2'-0"	6'-1¼"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-7⅝"	A36	1.09	4⅜"	A36	1.09	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2⅝"	49'-6⅛"	5'-2½"

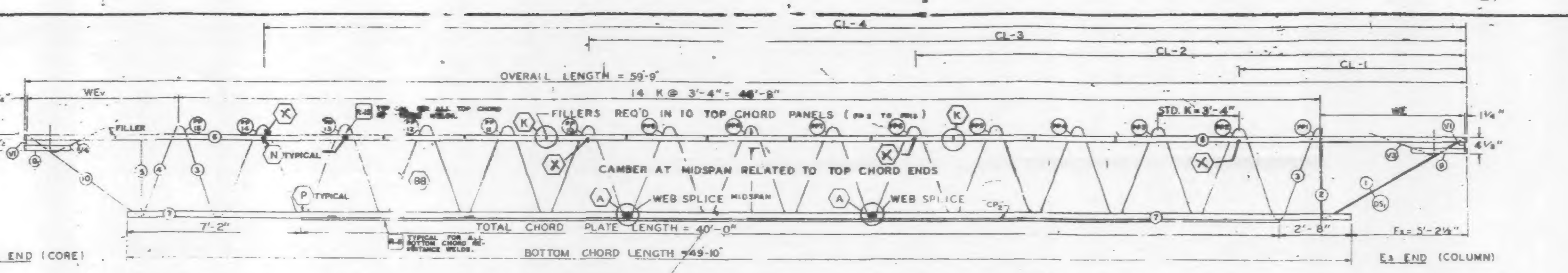
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7A-599	9	A242	2"x1½"x.25	1'-7"	6'-9¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4¾"	A242	1.14	4½"	—	—	—	A242	1.14	2'-2½"	4	A242	1	1.14	3'-0½"	—	—	—	—	—

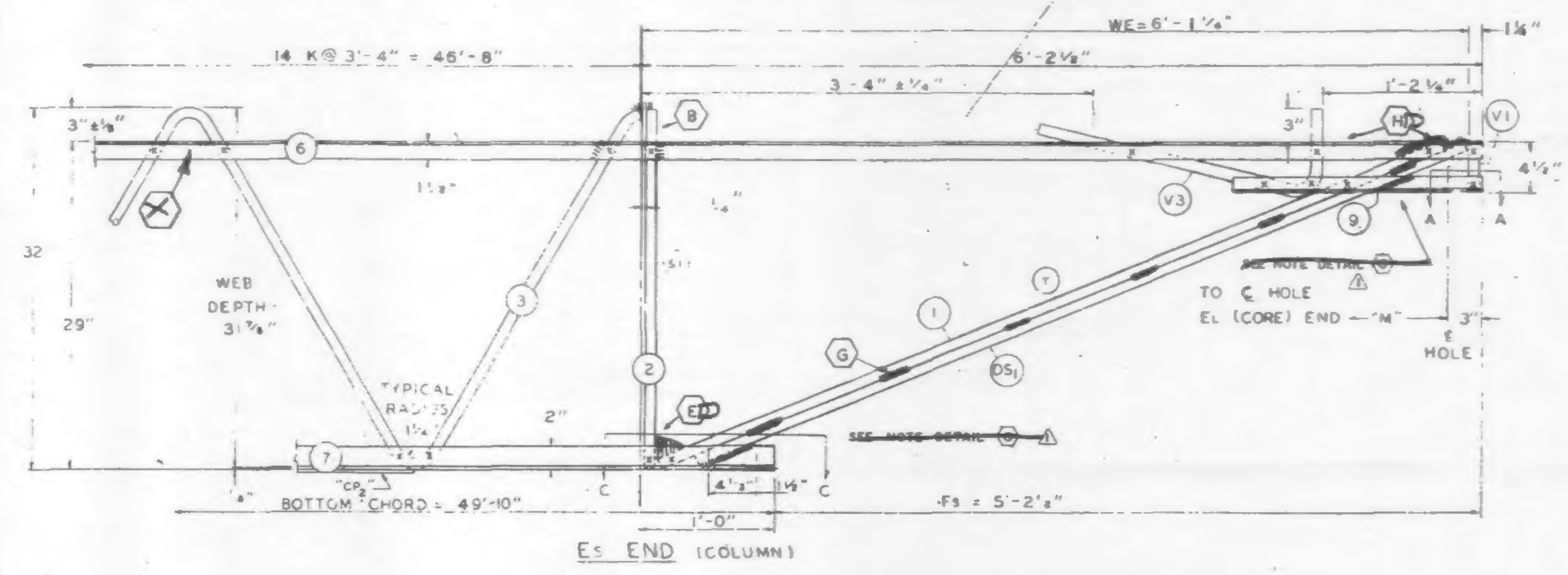
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7A 59'-9" OVERALL
WORLD TRADE CENTER TOWER A+B

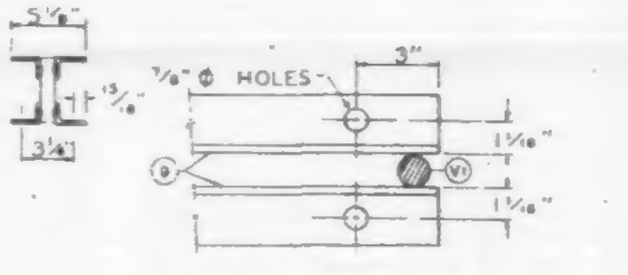
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A81-4 7-A83-2
PLATE
APPROVED FOR FABRICATION BY JW FOR PONYA DATE 4/25/68
DRAWN BY lwh DATE APR. 18, 1968
APPROVED FOR FABRICATION BY FOR FABRICATION DATE
CHECKED BY T.M. CHURA DATE APR. 18, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. WTC 221
SHEET NO ST207A



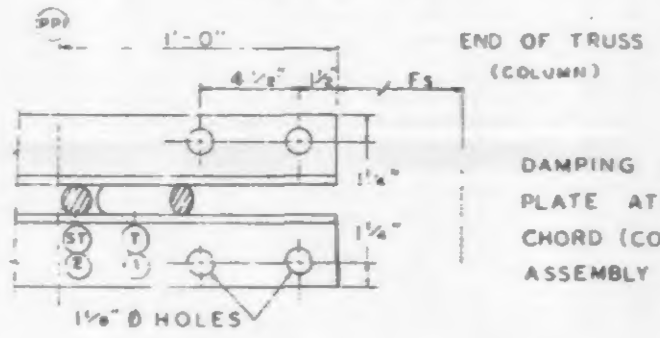
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A

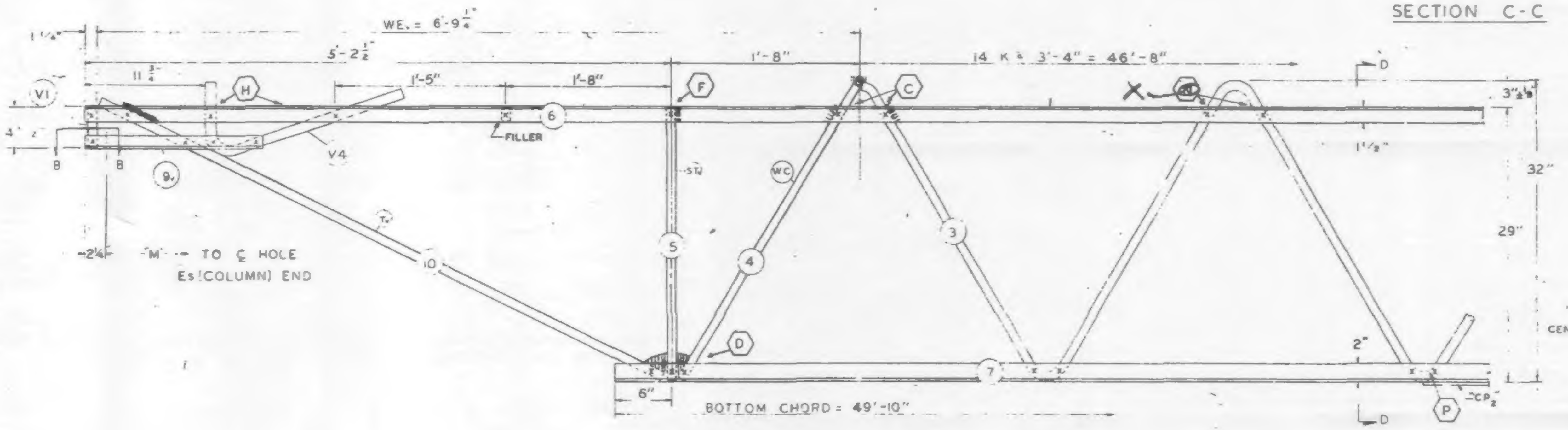


SECTION C-C

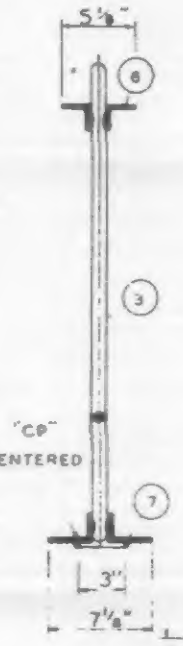
ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS.
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R-8].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

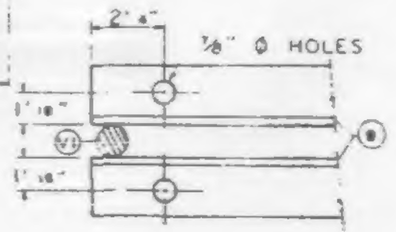
FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/8"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



EL END (CORE)



SEC D-D



SECTION B-B

6/13/68 WAB

NO.	DATE	REVISION	
⚠	5-27-68	T LENGTH, WELD, CHORD PLATE	T.M.C.

REF DRWGS

7-AB1-4	4-15-68
7-AB1-52	2-15-68
7-AB1-53	4-1-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF K	FILLER NO.	DIA	"M" ℄ HOLE	TRUSS DATA		CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T7A-599	6	A242	2"x1½"x 31	59-9	7	A36	3"x2"x 33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	59'-3¾"			CP2	A36	¼x3	40'-0" ⚠

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T7A-599	9	A242	2"x1½"x 25	1'-10"	6'-1¼"	1	A36	1.09	6'-3⅛" ⚠	2	A36	1.09	2'-7⅞"	A36	1.09	4¾"	A36	1.09	2'-9⅛"	DS1	A242	.75	6'-3⅛" ⚠

CORE END

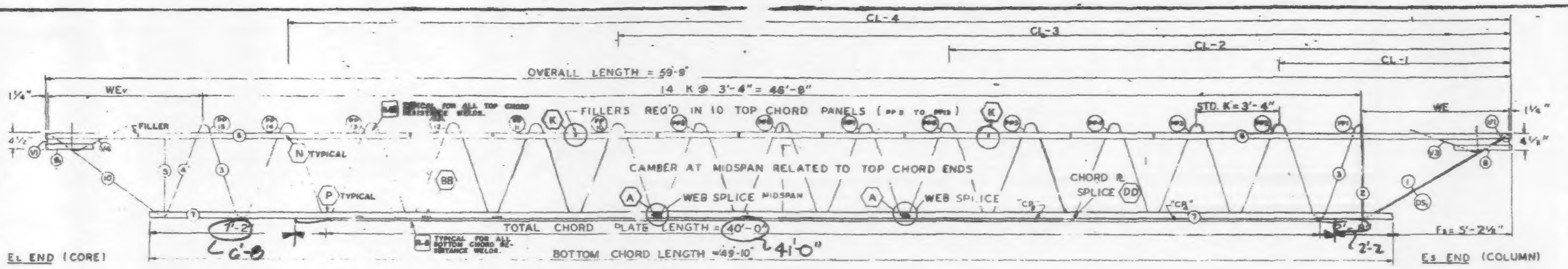
EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA.	LENGTH	STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA.	LENGTH
C32T7A-599	9v	A242	2"x1½"x 25	1'-7"	6'-9½"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4⅝"	A242	1.14	4½"	–	–	—	A242	1.14	2'-2½"	4	A242	1	1.14	3'-0½"	-	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

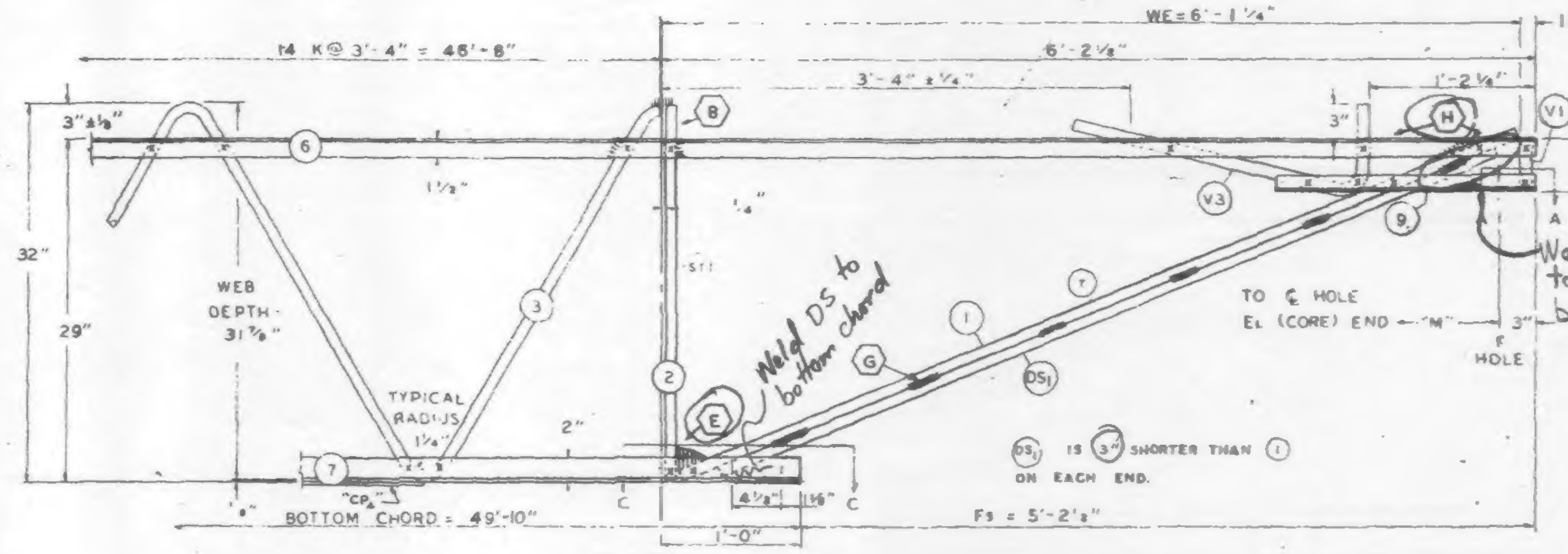
FLOOR TRUSS C32T7A 59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

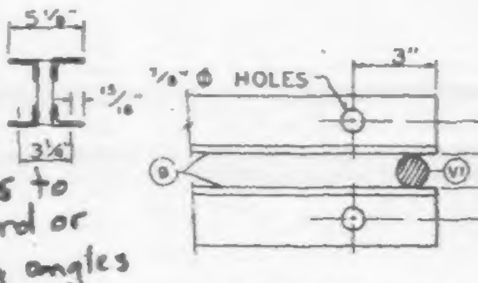
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-4 7-AB3-2	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE	DRAWN BY lwh DATE APR. 10, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APR. 12, 1968	IN CHARGE OF PROD DEV
DETAILED BY LACLEDE STEEL CO		FABRICATION CONT NO WTC 221	SHEET NO ST207A



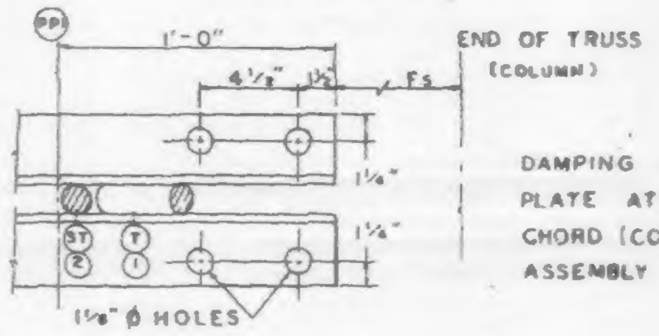
TRUSS ELEVATION



Es END (COLUMN)



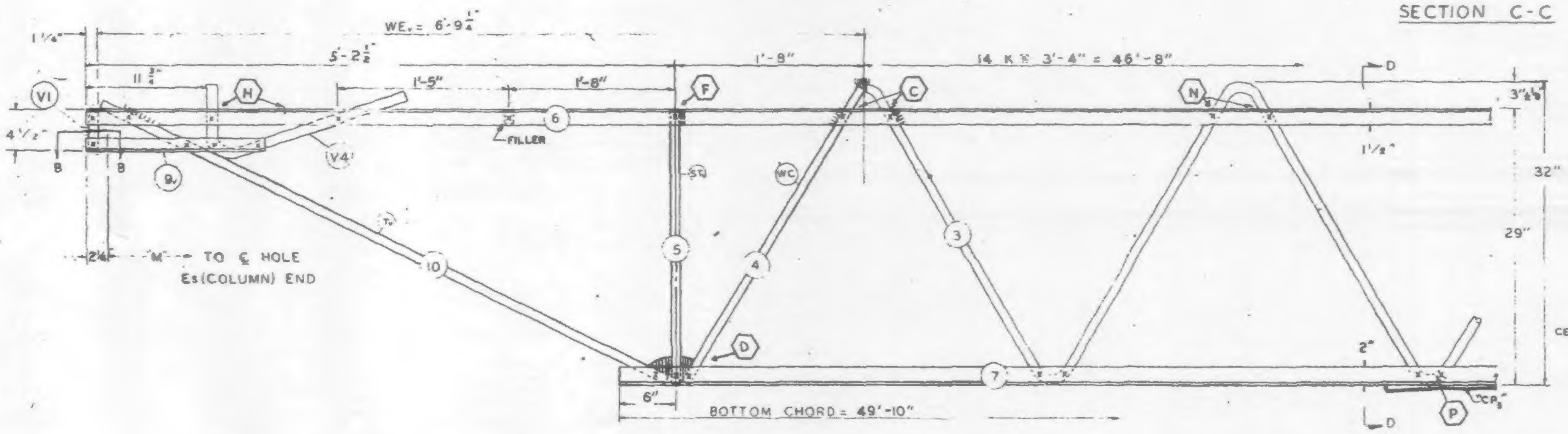
SECTION A-A



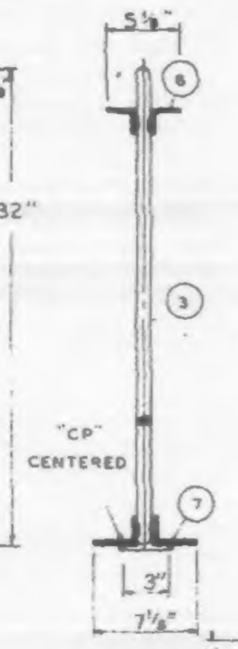
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS.
AND AT BOTTOM CHORD WEB SPLICES (shaded).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-8.

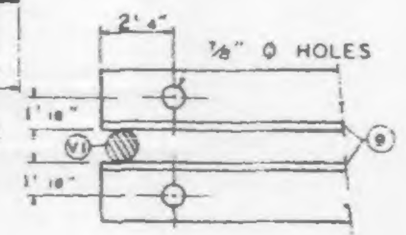
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)



SEC D-D



SECTION B-B

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± /4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59' 9"	± 1/8"
WEB DEPTH	31 7/8"	± 1/ "

REF DRWGS.

7-AB1-4	4-15-68
7-AB1-52	2-15-68
7-AB1-53	4-1-68
7-AB4-50 & 50 2	10-20-67
7-AB3-2	1-3-68
7-AB4-50 S	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" ℄ HOLE	TRUSS DATA		CHORD PLATES MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7A-599	6	A242	2"x1½"x 31	59'-9"	7	A36	3"x2"x 33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	59'-3¾"			CP₂	A36	¼x3	30'-0"	CB	A36	½"x3"	10'-0"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T7A-599	9	A242	2"x1½"x.25	1'-10"	6'-1¼"	1	A36	1.09	6'-5"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅝"		1.09	2'-9½"	DS₁	A242	.92	5'-11"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

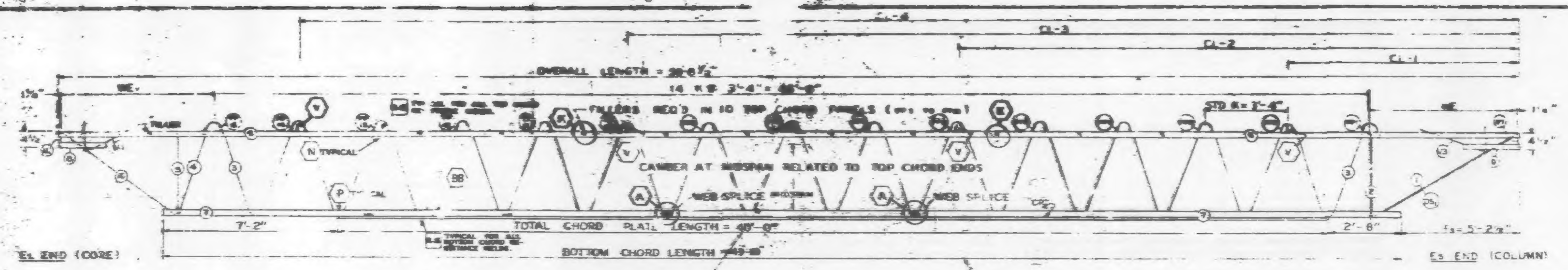
EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE₁	DIAGONAL "T₁" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST₁" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7A-599	9₁	A242	2"x1½"x.25	1'-7"	6'-9¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4¾"	A242	1.14	4½"	—	—	—	A242	1.14	2'-2½"	4	A242	1	1.14	3'-0½"	-	—	—	—	—

STEEL TRUSS DETAILS
WORLD TRADE CENTER N.Y.C.
THE PORT OF NEW YORK AUTHORITY

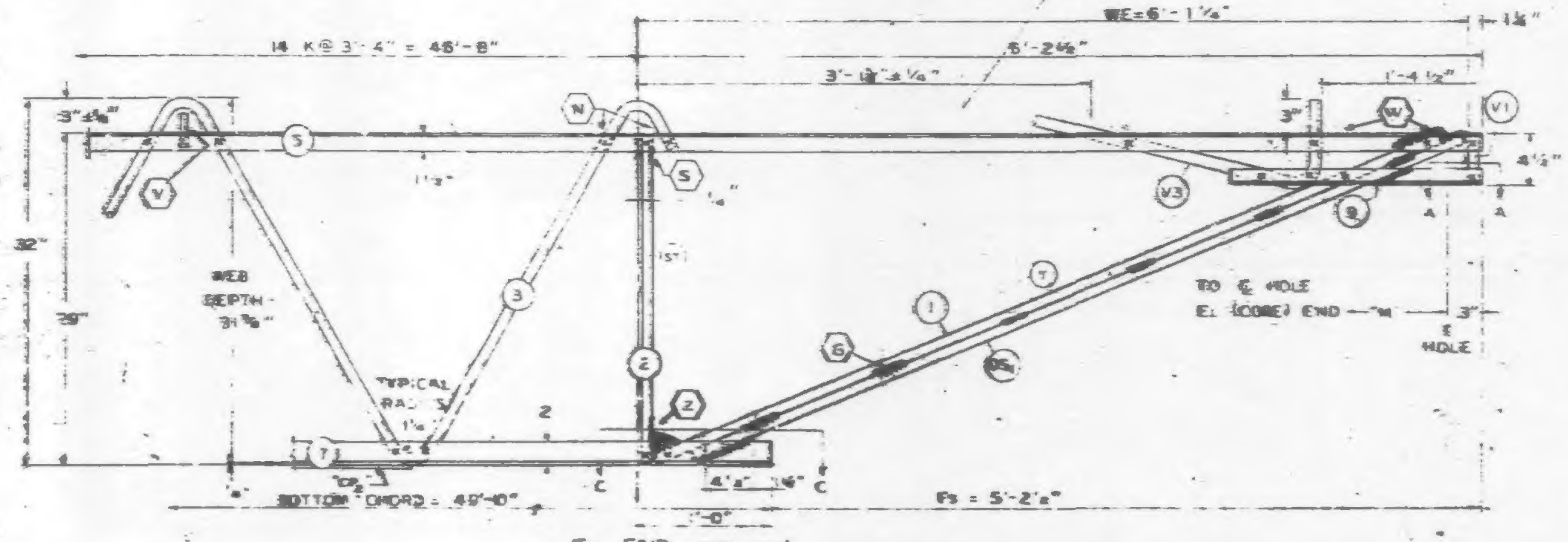
FLOOR TRUSS C32T7A 59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-4 7-AB3-2	PLATE
APPROVED FOR FABRICATION DATE BY FOR PONYA	DRAWN BY [signature] DATE APR. 18, 1968	
APPROVED FOR FABRICATION DATE BY FOR FABRICATOR	CHECKED BY T.M. CHURA DATE APR. 18, 1968	IN CHARGE OF PROD DEV
DETAILED BY LACLEDE STEEL CO.	FABRICATION CONT NO WTC 221	SHEET NO ST207A

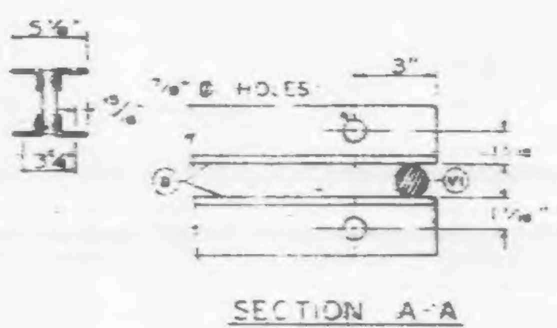
4/30/68 SC



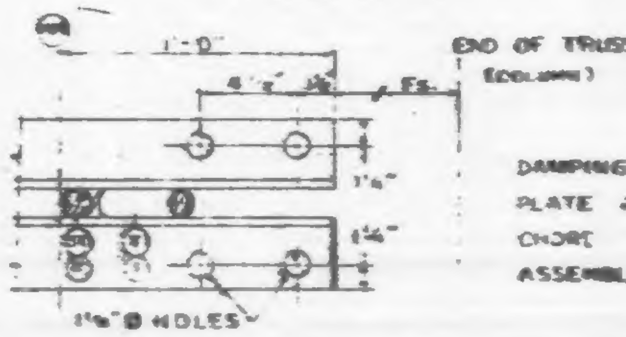
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A

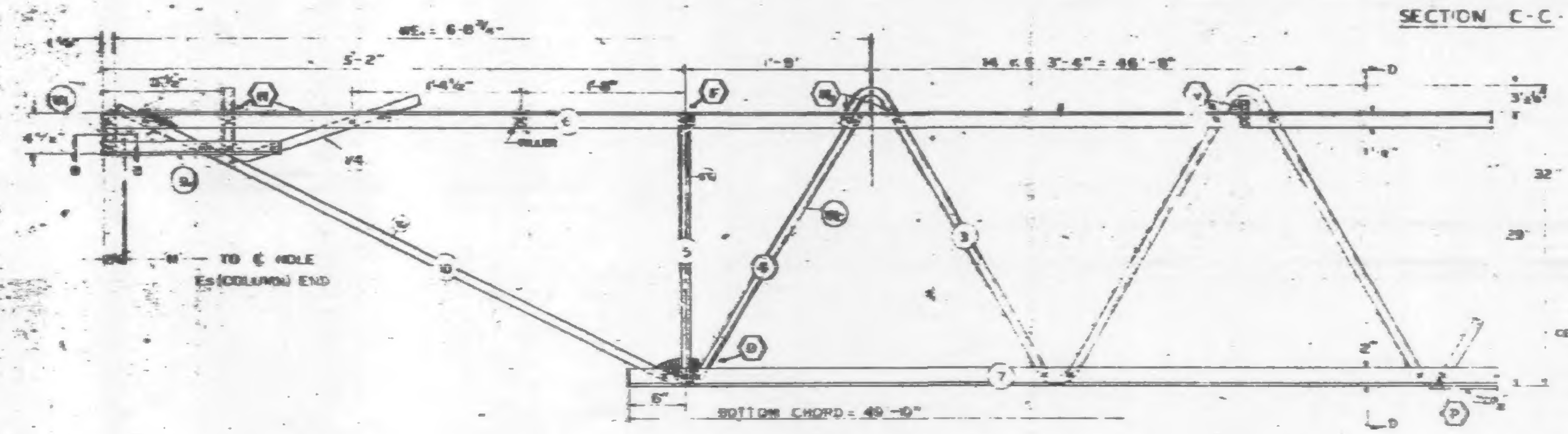


SECTION C-C

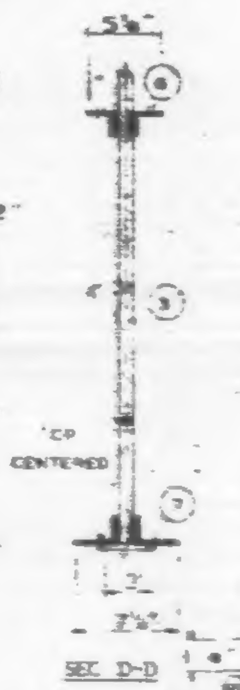
FABRICATION REQUIREMENTS		
CAMBER AT MIDSPAN	2¼"	[illegible]
DESIGN DEPTH	29"	[illegible]
PANEL "K"	3'-4"	[illegible]
OVERALL LENGTH	59'-8	[illegible]
WEB DEPTH	31⅞"	[illegible]

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (MAX).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [R-6]

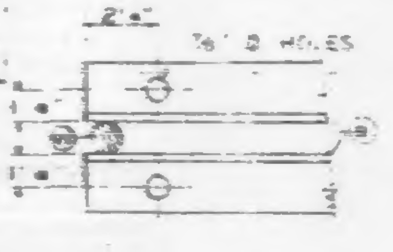
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)



SEC D-D



SECTION B-B

REF DRWGS

7-AB1-4	7-30-69
7-AB-52	2-15-69
7-AB1-53	[illegible]
7-AB4-50	[illegible]
7-AB3-2	1-3-69
7-AB4-585	[illegible]

PAINT
LACLEDE ELECTROCOAT
RED NO 10004

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "R"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	MK	DIA		MK	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7B-598.5	6	A242	2"x1½"x.31	59'-8½	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	[illegible]	14 @ 3'-4" = 46'-8"	11	1.09	59'-3¼"	4	[illegible]	3"	CP	A36	[illegible]	40'-0"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T7B-598.5	9	A242	2"x1"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-[illegible]	A36	1.09	4⅝"	A36	[illegible]	[illegible]	[illegible]	A242	.32	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	35'-2½"	49'-6½"	5'-2½"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END "T" [illegible]									WEB "[illegible]"					WEB "[illegible]"				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	[illegible]	DIA	LENGTH	MK	TYPE STEEL	[illegible]	DIA	LENGTH
		C32T7B-598.5	8	A242	2"x1½"x.25	1'-6"	6'-8¾"	10	A242	1.14	5'-6⅜"	5	A242	1.14	2'-[illegible]	A36	1.14	4"	—	—	—	A[illegible]	[illegible]	2'-2	4	[illegible]	1	1.14	2'-8"	—	—	—	—	—

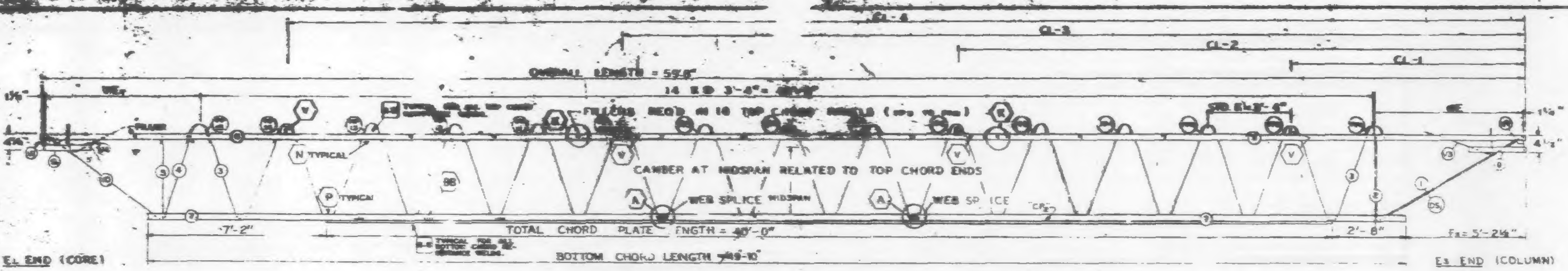
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7B 59'-8½" OVERALL
WORLD TRADE CENTER TOWER A-B

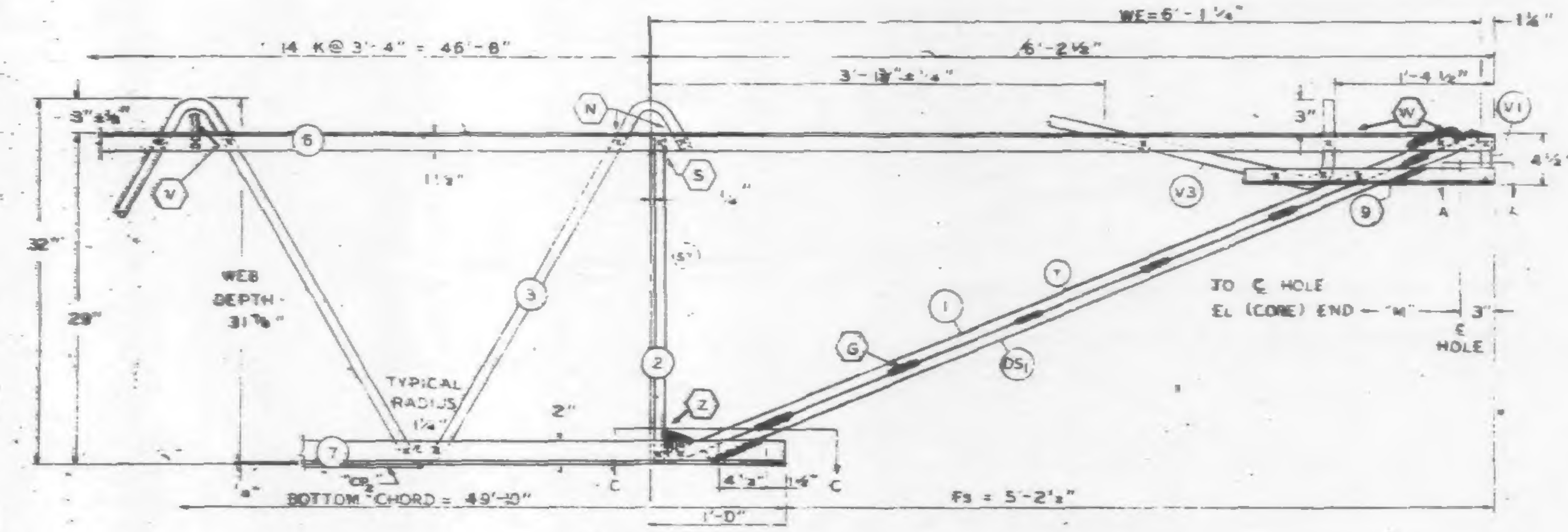
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-AB1-4 7-AB3-2
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE
DRAWN BY
DATE FEB 6, 1969
CHECKED BY
DATE FEB 11, 1969
FABRICATION CONT. NO. WTC 221
SHEET NO. ST29[illegible]

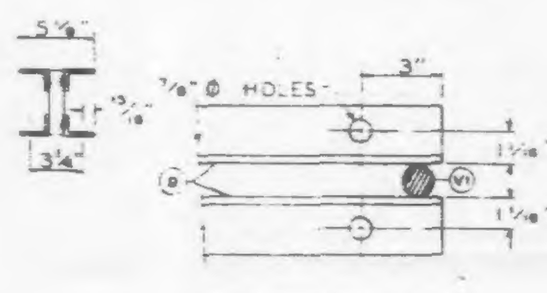
LACLEDE STEEL CO.



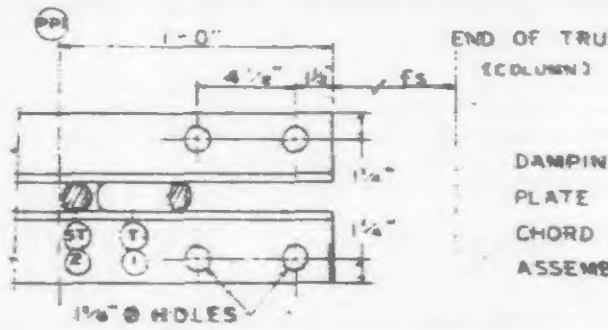
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A

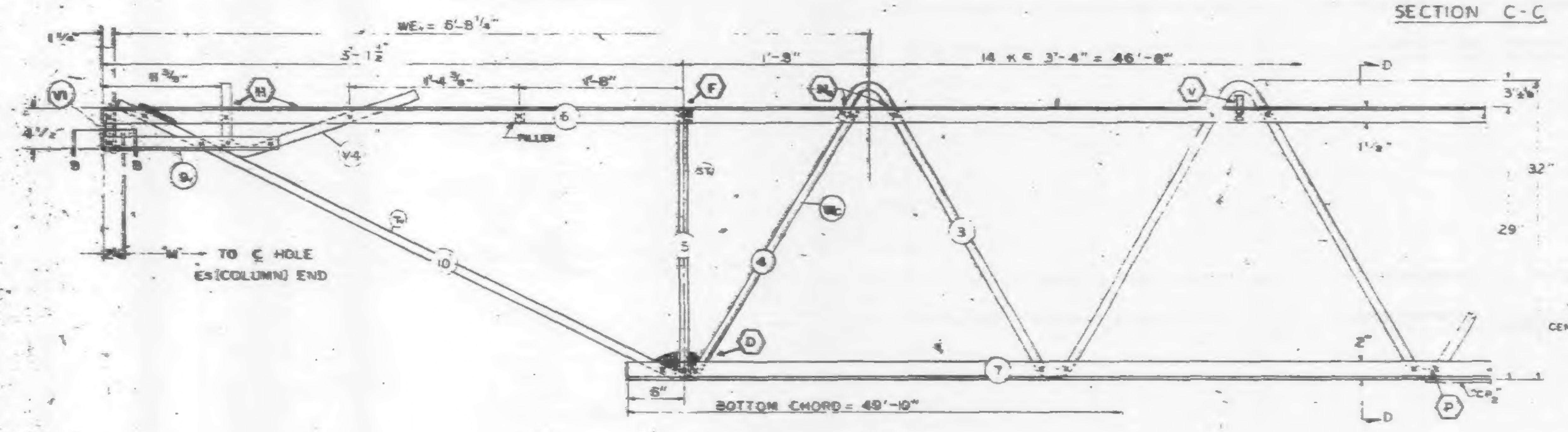


SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS.
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., [R-8].

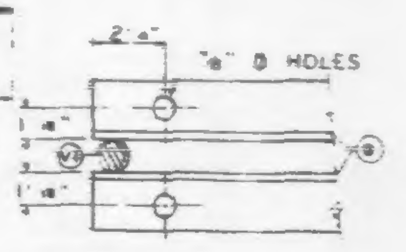
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (CL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

FABRICATION REQUIREMENTS		
	[illegible]	[illegible]
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	[illegible]	1/[illegible]
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	7/8"	± 1/4"



EL END (CORE)

SEC D-D



SECTION B-B

NO.	DATE	REVISION	BY

REF DRWGS

7-AB1-4	7-22-[illegible]
7-AB-52	2-15-[illegible]
7-AB1-53	7-[illegible]
7-AB4-50	[illegible]-1-[illegible]
7-AB3-2	1-3-[illegible]
7-AB4-58.5	[illegible]

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA		NO.	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7C-598	6	A242	2"x1½"x.31	59'-8"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	88'-1⅛"	14 @ 3'-4" = 46'-8"	11	1.09	59'-3¾"	4	1.09	3"	CP2	A36	¼x3	40'-0"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
															MK. V1			MK. V3						
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7C-598	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-4⅜"	A36	1.09	4⅜"	A36	1.09	2'-9"[illegible]	DS1	A242	.32	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

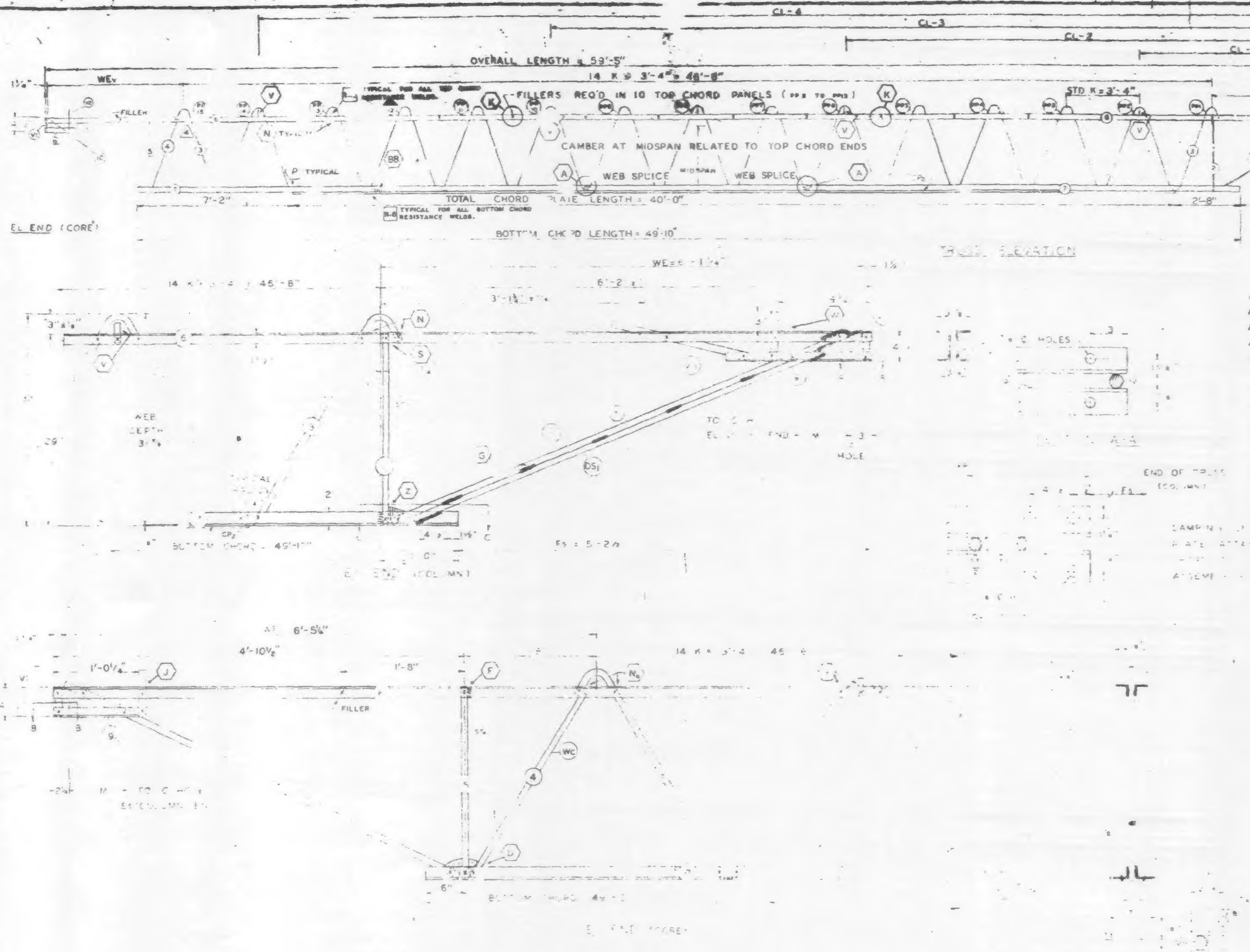
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER									WEB "Wc"					WEB "WT"				
															MK. V1			MK. V2			MK. V4												
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	[illegible]C-598	[illegible]	A242	2"x1½"x.25	1'-6"	6'-8[illegible]	10	A242	1.14	5'-5[illegible]	5	A242	1.14	2'-4[illegible]	A242	1.14	4[illegible]	—	—	—	A242	1.14	2'-2[illegible]	4	A242	1	1.14	2'-10"	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7C 59'-8" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-4 7-AB3-2 PLATE
APPROVED FOR FABRICATION FOR PONYA DATE 2/28/69
DRAWN BY [illegible] DATE [illegible]
APPROVED FOR FABRICATION DATE BY FOR FABRICATOR
CHECKED BY [illegible] DATE [illegible]
FABRICATION CONT NO WTC 221
SHEET NO [illegible]
LACLEDE STEEL CO.



FABRICATION REQUIREMENTS

	DESIGN	
CAMBER AT MIDSPAN	2½"	[illegible]
DESIGN DEPTH	30"	[illegible]
PANEL "K"	3'-4"	[illegible]
OVERALL LENGTH	59'	[illegible]
WEB DEPTH	[illegible]	[illegible]

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293
AND ST28[illegible]

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
[illegible] IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

CONTRACT WTC 223.00.

SECTION B-B

NO.	DATE	REVISION	BY

REF. DRWGS

7-AB1-4	7-22-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-[illegible]	8-1-68
7-AB4-[illegible]	0-20-67

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL T STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB WC MK	TYPE STEEL	PCS	DIA	LENGTH	WEB WT MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T*D 595	9	A242	2" x [illegible] x .25	1'-2¼"	6'-5¼"	C	A242	1.4	5'-3"	5	A242	.4	2'-4⅞"	A242	.4	4⅞	A242	1.14	7⅞"	—	—	—	4	A242		.114	2'-10"	-	—	—	—	—

STEEL TRUSS DETAILS

FLOOR TRUSS C32T*D 59'-5" OVERALL

WORLD TRADE CENTER TOWER A+B

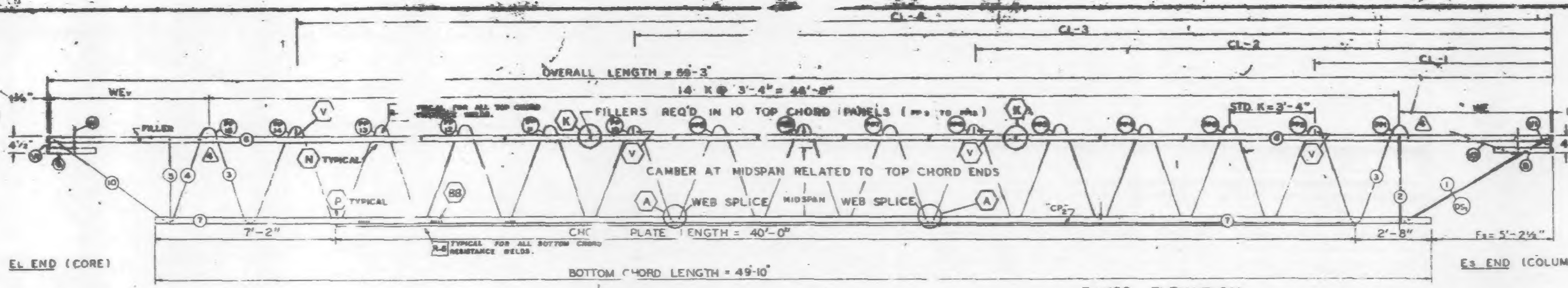
4/15/69

4-7-69

4-7-69

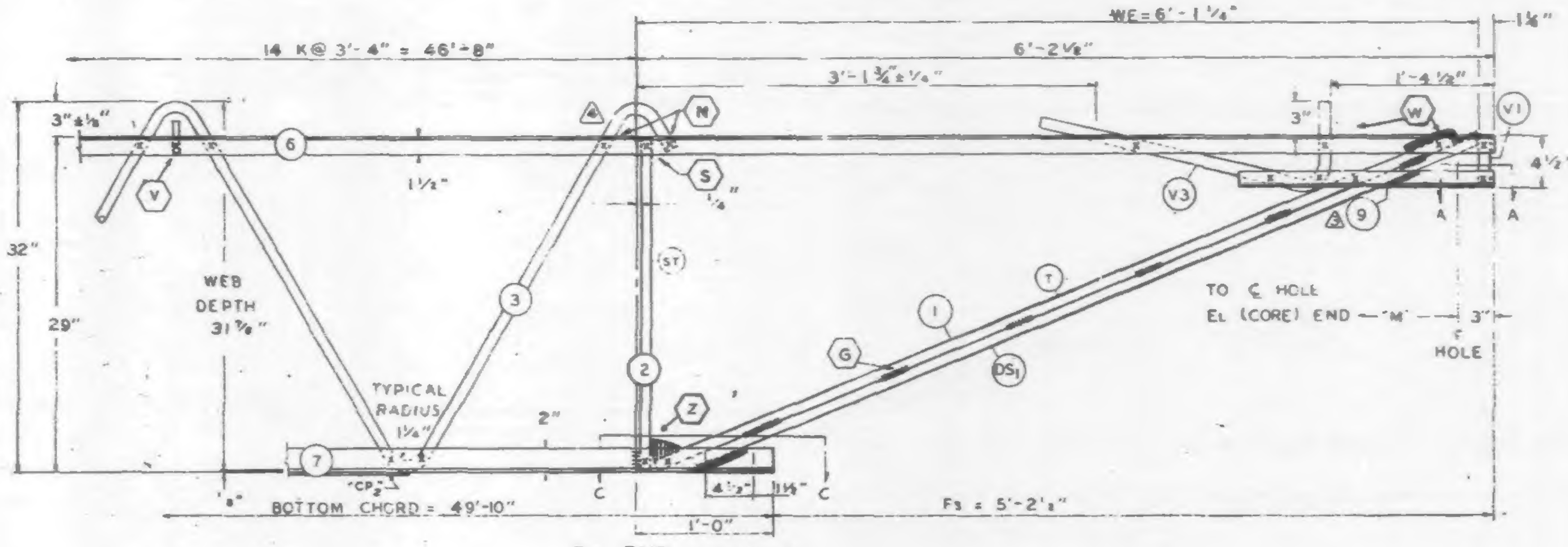
221

ST207D

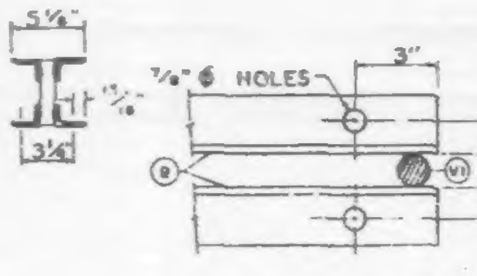


TRUSS ELEVATION

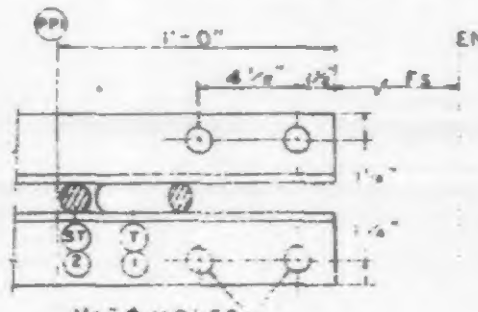
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	±-3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31"	± 1/4"



Es END (COLUMN)



SECTION A-A

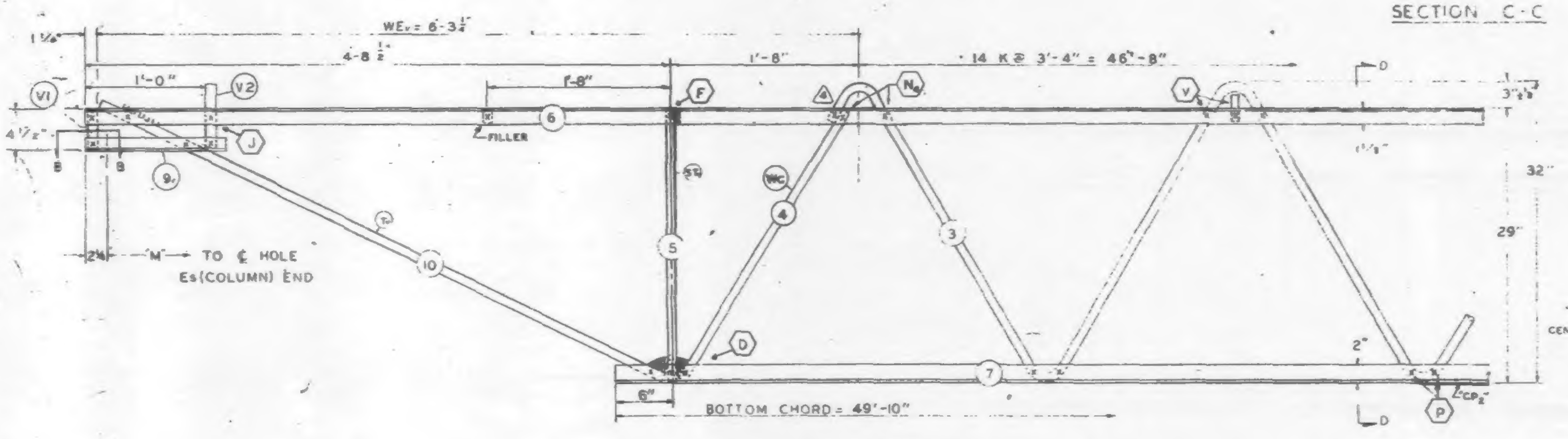


SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (mesa).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.
AND ST280.

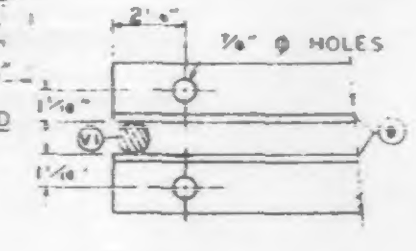
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)

SEC. D-D



SECTION B-B

NO.	DATE	REVISION	BY
4	12-9-68	AS NOTED	G.D.C.
3	7-22-68	MK. (9) LENGTH	T.M.C.
2	6-22-68	GENERAL	T.M.C.
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

(4) REF DRWGS

7-AB1-4	7-22-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH (4)	NO. OF K	NO	DIA		NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7E-593	6	A242	2"x1½"x 31	59'-3"	7	A36	3"x 2" x 33	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.09	58'-9 ¾"	4	1.09	3"	CP2	A36	¼x3	40'-0" (1)

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT (1)				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT (1)			
		MK	TYPE STEEL	CHORD SIZE	LENGTH (3)		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH (4)	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7E-593	9	A242	2"x1½"x 25	2'-3"	6'-1¼"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅝"	A36	1.09	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH (4)	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH (4)	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7E-593	9v	A242	2"x1½"x 25	1'-2"	6'-3¼"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅝"	A242	1.14	7⅞"	—	—	—	4	A242	1	1.14	2'-10"	-	—	—	—	—

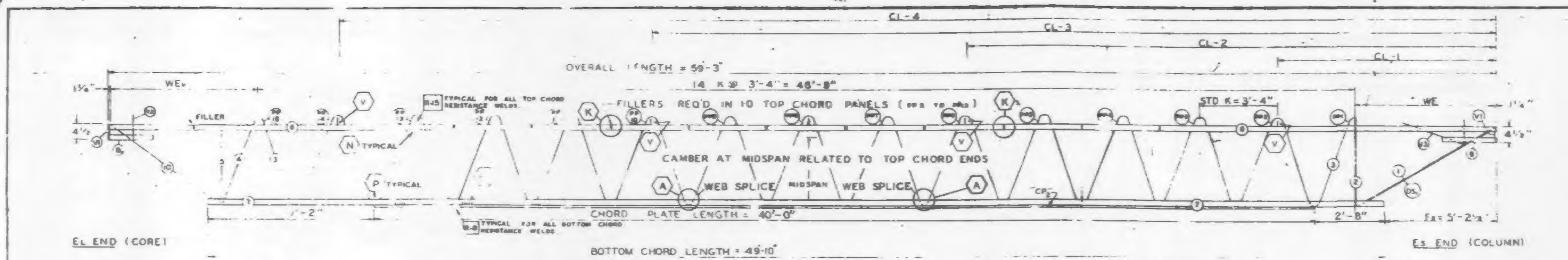
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B.

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-4 7-AB3-2	PLATE
APPROVED FOR FABRICATION FOR PONYA BY James White DATE 12/12/68	DRAWN BY [illegible] DATE APR. 18, 1968	
APPROVED FOR FABRICATION FOR FABRICATOR BY LACLEDE STEEL CO. DATE	CHECKED BY T.M. CHURA DATE APR. 18, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER	FABRICATOR CONT. NO. WTC 221	SHEET NO. ST207E

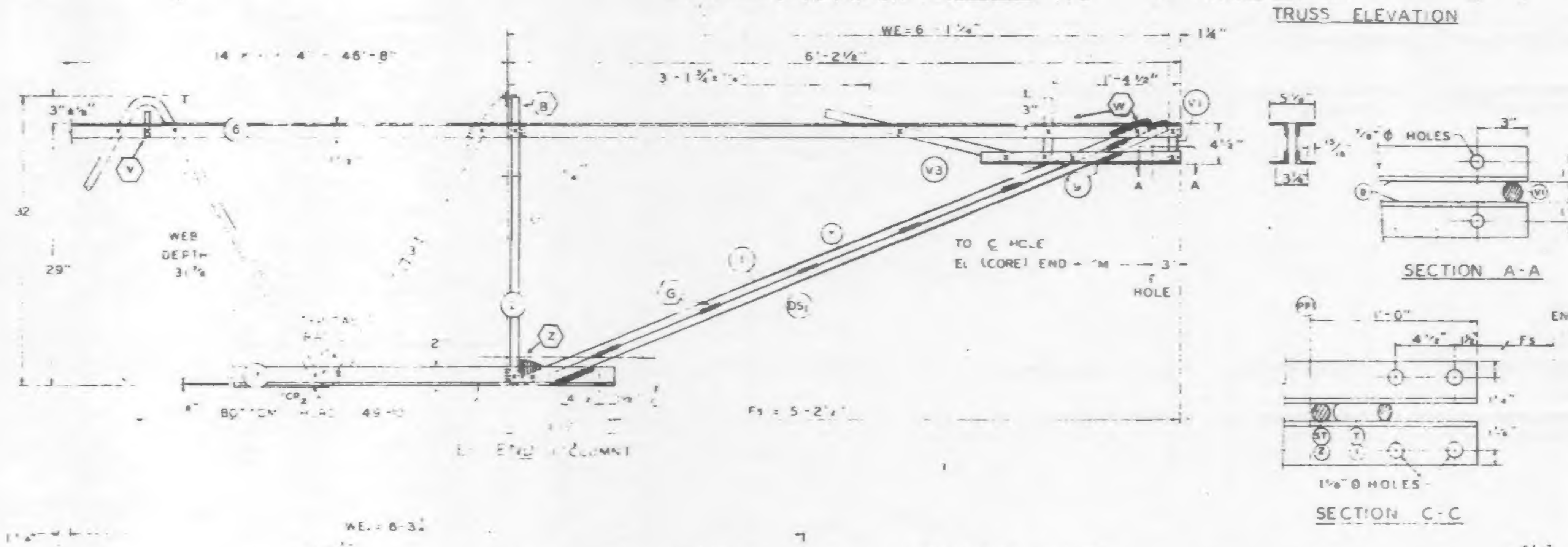
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



TRUSS ELEVATION

ALL PANEL POINTS RESISTANCE WELDED.
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292,
AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. A.
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, ie. R-6.

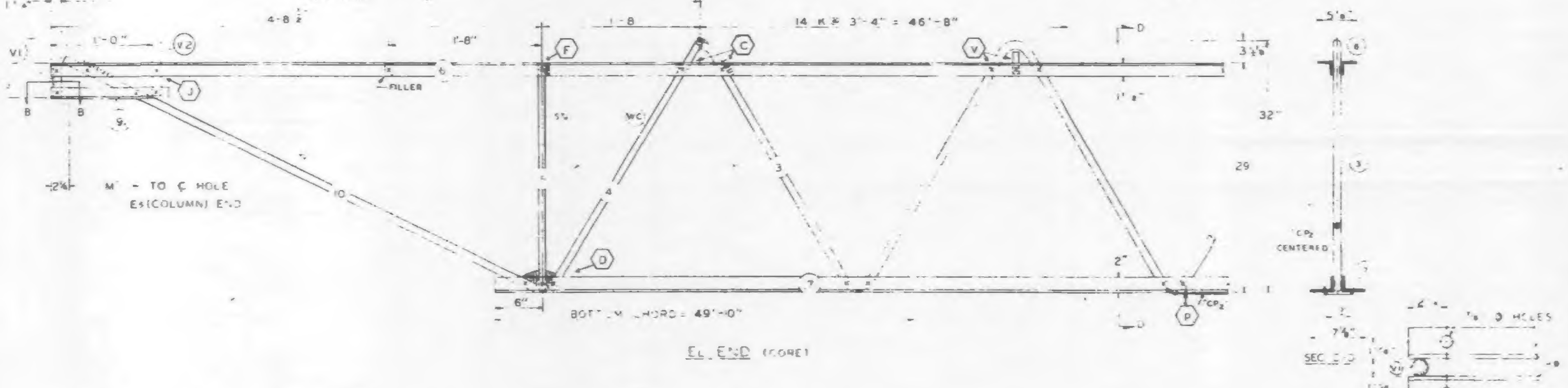


DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00.

NO.	DATE	REVISION	BY
3	7-22-68	MK (9)	T.M.C.
2	6-22-68	GENERAL	T.M.C.
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

REF DRWGS

7-AB1-4	4-5-68
7-AB1-57	2-15-68
7-AB1-53	4-1-68
7-AB4-50 & 50 2	10-20-67
7-AB3-2	[illegible]-1-68
7-AB4-50 5	10-20-67



PAINT
LACLEDE [illegible] COAT

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7E-593	6	A242	2"x1 1/2"x 3	59'-3"	7	A36	3"x2"x 33	49'-10"	3	A36	1.09	87'-2 1/2"	14 @ 3'-4" = 46'-8"	11	1.09	58 9 3/4"	4	1.09	3"	CP2	A36	1/4x3	40'-0"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7E-593	9	A242	2"x1 1/2"x 25	2'-3"	6'-1 1/4"		A36	1.09	6'-3 1/8"	2	A36	1.09	2'-7 7/8"	A36	1.09	4 5/8"	A36	1.09	2'-9 1/8"	DS1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/4"

CORE END

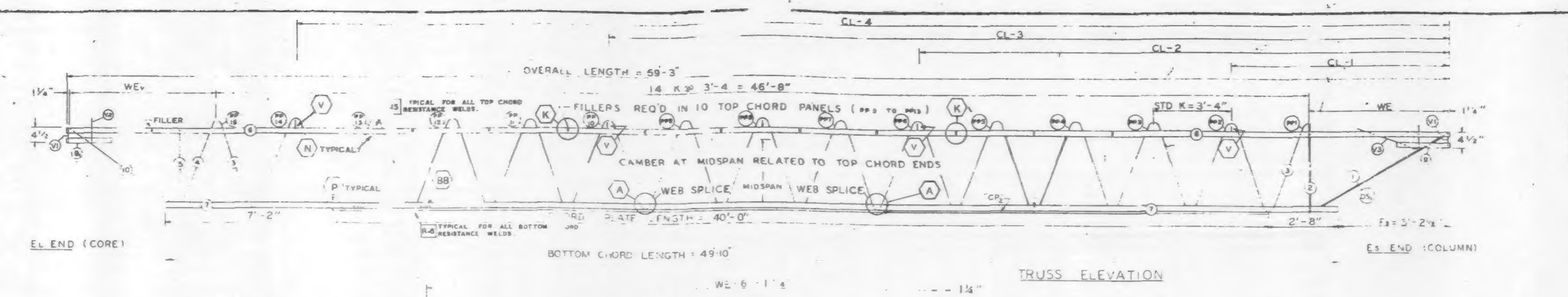
EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					WEB "Wt"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7E-593	9	A242	2"x1 1/2"x 25	1'-2"	6'-3 1/4"	0	A242	1.14	5'-1"	5	A242	1.14	2'-4 3/4"	A242	1.14	4 3/8"	A242	1.14	7 3/8"	—	—	—	4	A242	1	1.14	3'-0 1/2"	—	—	—	—	—

STEEL TRUSS DETAILS

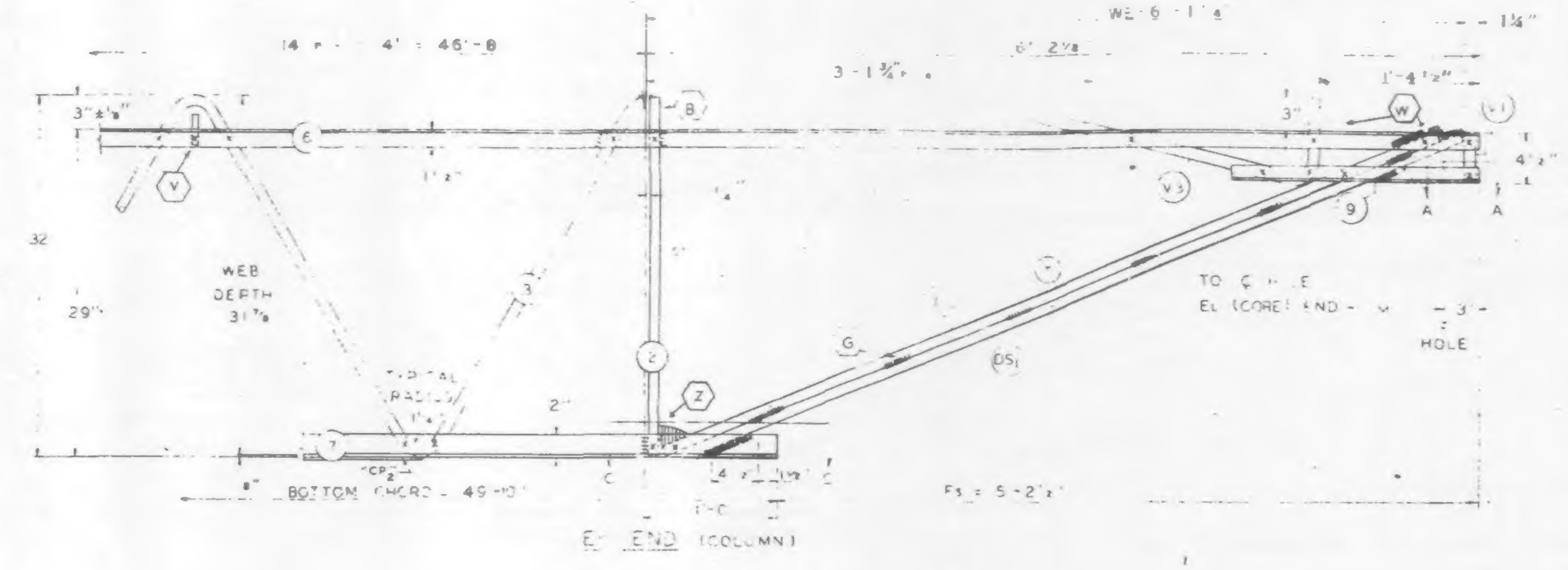
FLOOR TRUSS C32T7E 59'-3" OVERALL

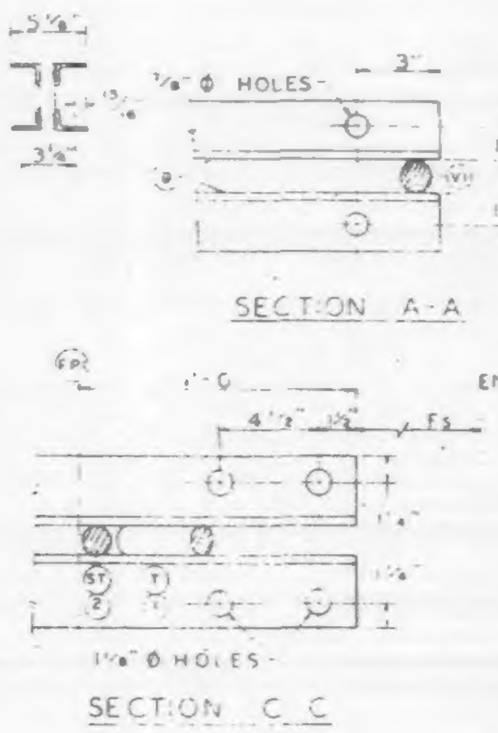
WORLD TRADE CENTER TOWER A-B

7-AB1-4 7-AB3-2 PLATE
3/4/68
APR. 18, 1968
T.M. CHURA
APR. 18, 1968
221
ST207E



FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



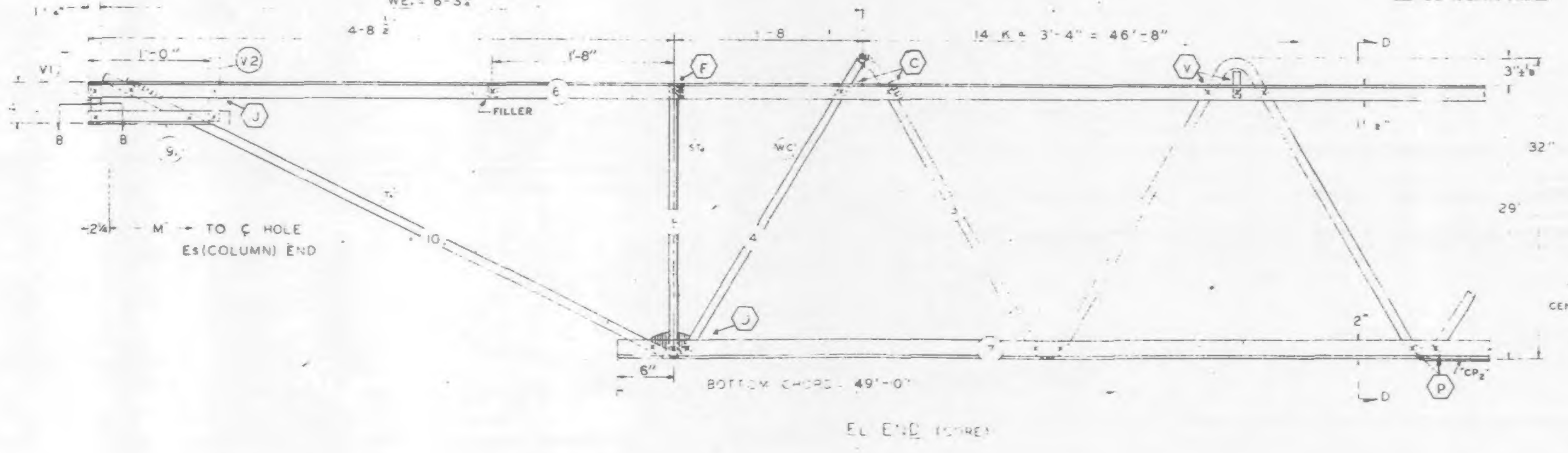


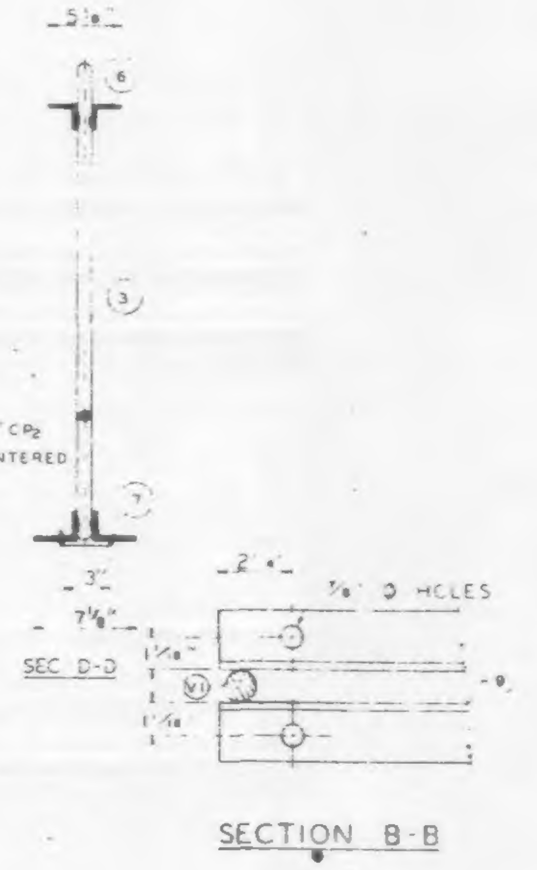
ALL PANEL POINTS RESISTANCE WELDED ...
ARC WELDS INDICATED AT SHADED AREA...
AND AT BOTTOM CHORD WEB SPLICES ...
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292,
AND ST28...

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R-6.

END OF TRUSS (COLUMN)

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD COL END IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





NO.	DATE	REVISION	BY
2	6-22-68	GENERAL	T.M.C.
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

REF DRWGS

7-AB1-4	4-15-68
7-AB1-52	2-15-68
7-AB1-53	4-1-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELE... TRI-COAT
RED NO. 10...

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄-℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7E-593	6	A242	2"x1½"x 3...	59'-3"	7	A36	3"x2"x 33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4"= 46'-8"	11	1.09	58'-9 3/4"	4	1.09	3"	CP_2	A36	¼x3	40'-0"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7E-593	9	A242	2"x1½"x 25	2'-0"	6'-1¼"		A36	1.09	6'-3 1/8"	2	A36	1.09	2'-7 7/8"	A36	1.09	4 3/8"	A36	1.09	2'-9¼"	DS_1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7E-593	9	A242	2"x1½"x 25	1'-2"	6'-3¼"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4 3/4"	A242	1.14	4 ...	A242	1.14	7 ...	—	—	—	4	A242	1	1.14	3'-0½"	-	—	—	—	—

STEEL TRUSS DETAILS

... AUTHORITY

FLOOR TRUSS C32T7E 59'-3" OVERALL

WORLD TRADE CENTER TOWER A-B

FABRICATION BY ... COMPANY

DRAWING NO. 7-AB1-4 7-AB3-2

APPROVED FOR FABRICATION DATE BY JW 4/29/68

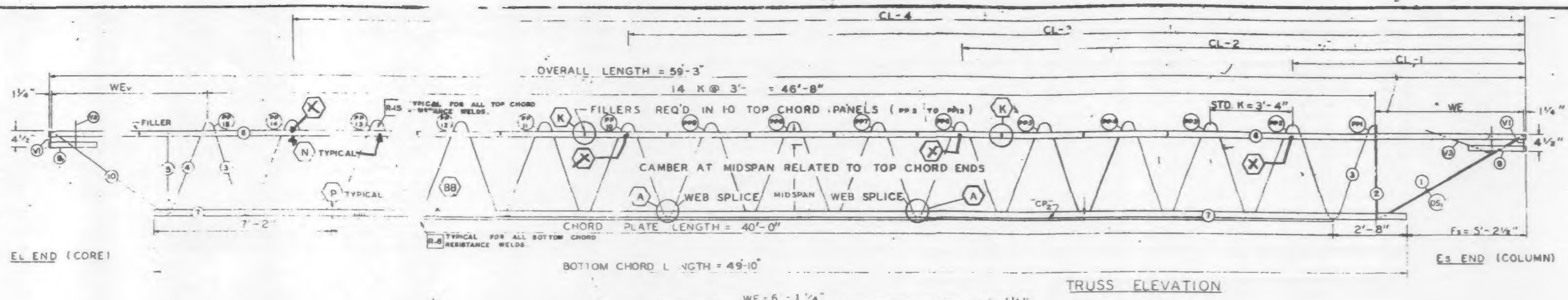
DRAWN BY ... DATE APR. 18, 1968

CHECKED BY T M CHURA DATE APR 18, 1968

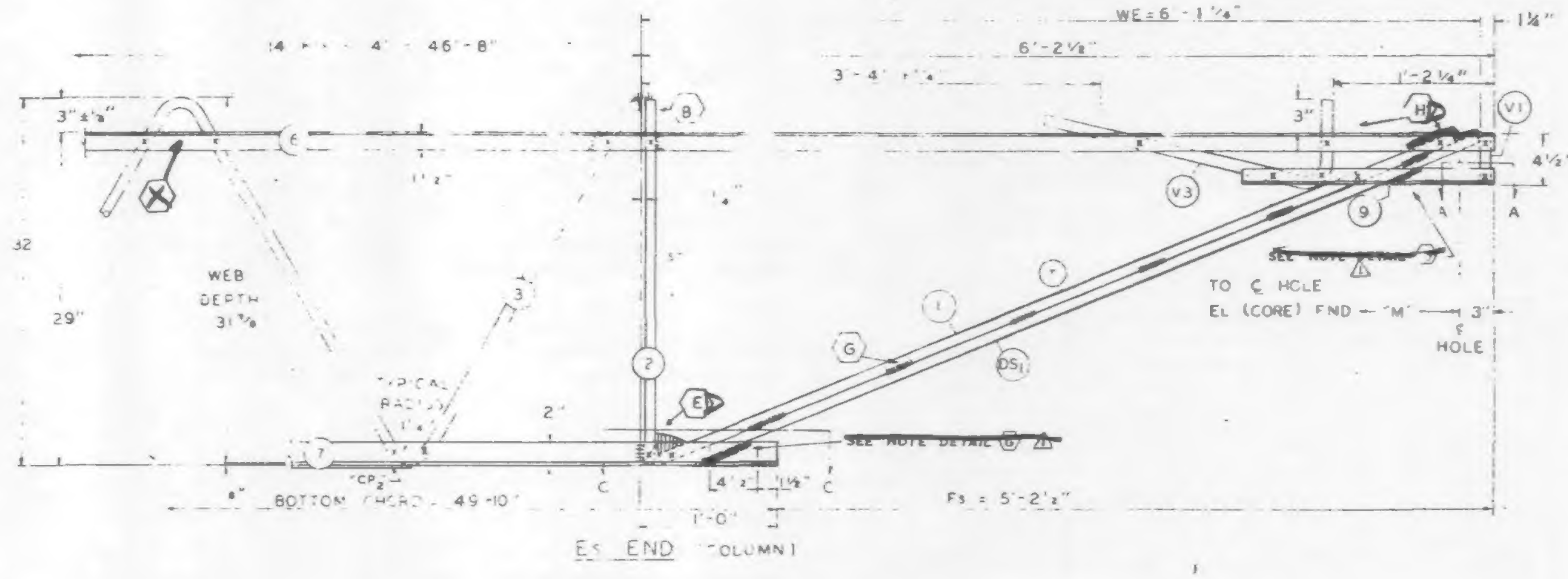
DETAILED BY ... C WEBER

... 221

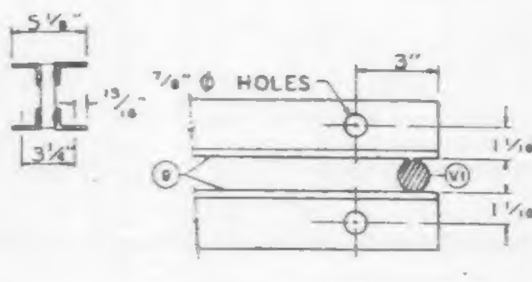
SHEET NO. ST207E



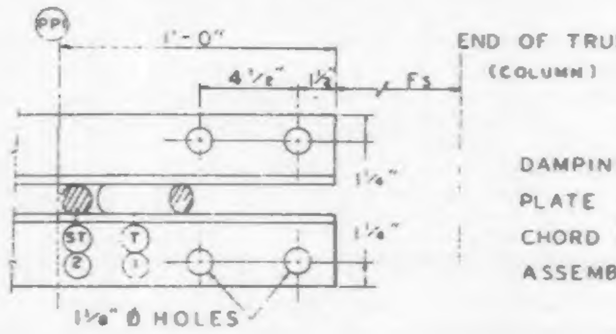
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A



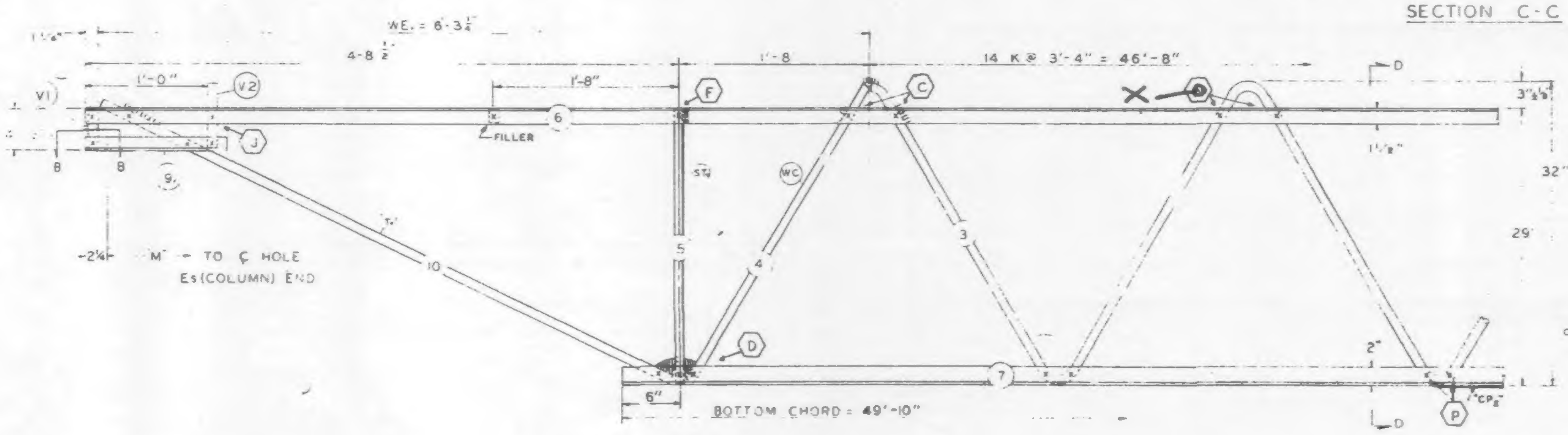
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291,
AND ST280.

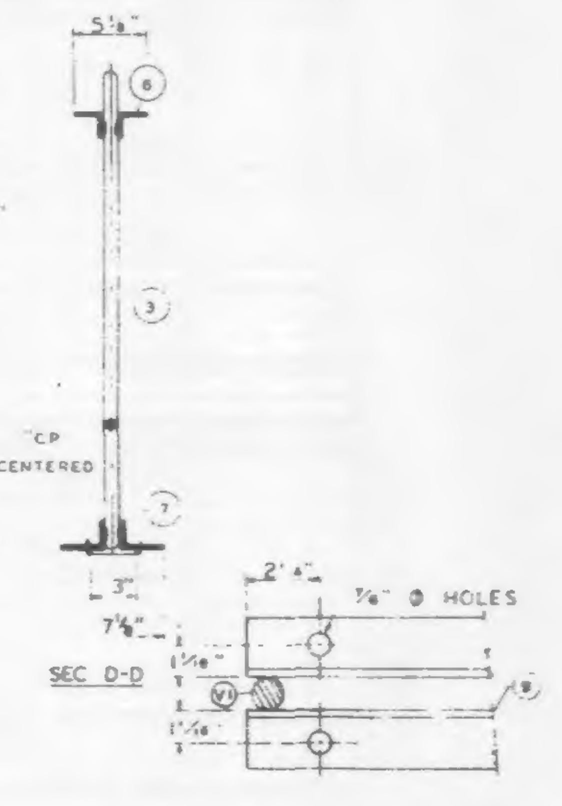
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, ie., [R-6].

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00.

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



EL END (CORE)



SECTION B-B

6/13/68 WAB

NO.	DATE	REVISION	BY
⚠1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

REF DRWGS

7-AB1-4	4-5-68
7-AB1-52	2-15-68
7-AB1-53	4-1-68
7-AB4-50 & 50 2	10-20-67
7-AB3-2	1-3-68
7-AB4-50 5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	TRUSS DATA		CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA				MK	TYPE STEEL	SIZE	LENGTH
C32T7E-593	6	A242	2"x1½"x.3	59'-3"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	58'-9¾"			CP2	A36	¼x3	40'-0"

⚠1

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7E-593	9	A242	2"x1½"x.25	1'-10"	6'-1¼"		A36	1.09	6'-3⅛"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅝"	A36	1.09	2'-9½"	DS1	A242	.75	6'-3½"

⚠1 ⚠1

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6½"	5'-2½"

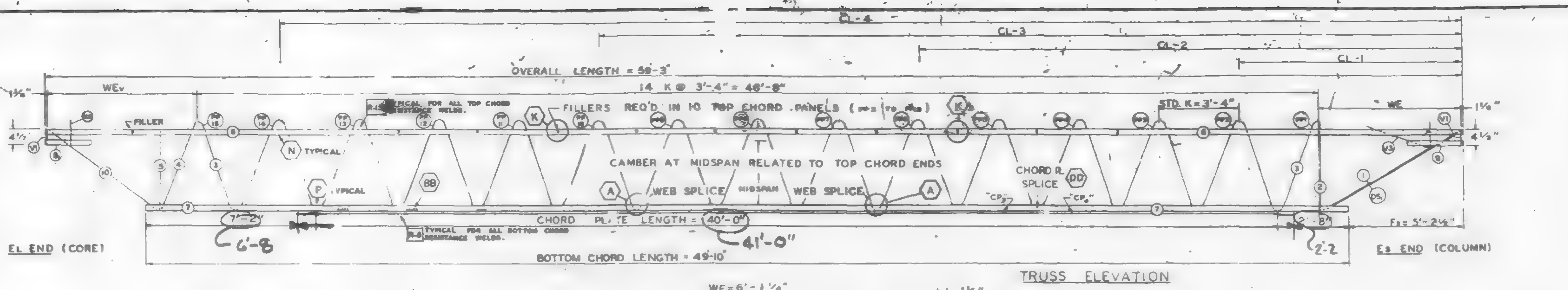
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7E-593	9	A242	2"x1½"x.25	1'-2"	6'-3¼"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4¾"	A242	1.14	4⅞"	A242	1.14	7⅞"	—	—	—	4	A242	1	1.14	3'-0½"	-	—	—	—	—

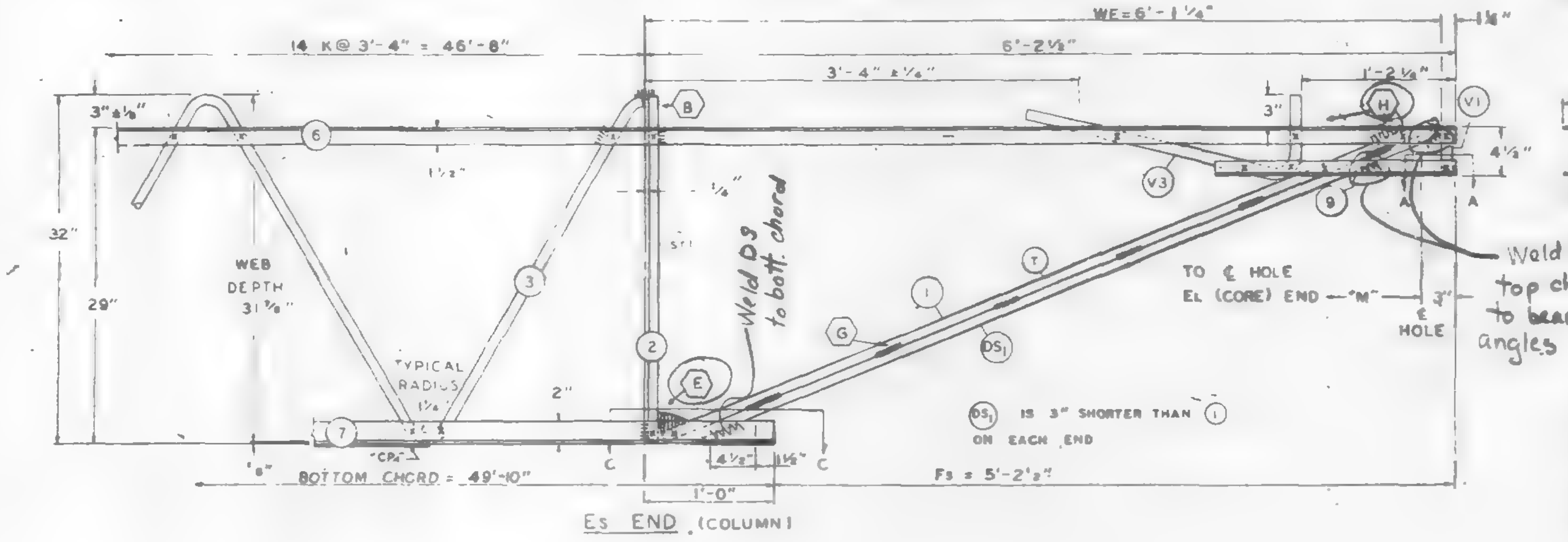
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

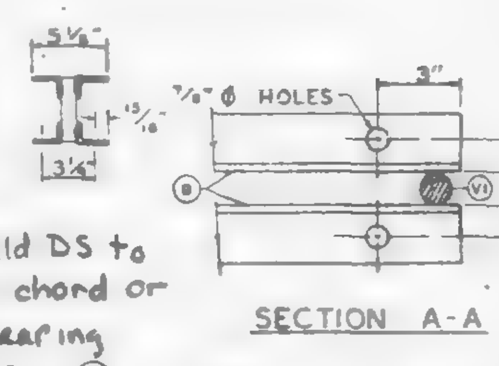
FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-4 7-AB3-2	DATE
APPROVED FOR FABRICATION DATE BY FOR PONYA	DRAWN BY	DATE APR. 10, 1968
APPROVED FOR FABRICATION DATE BY	CHECKED BY E.M. CHURA DATE APR. 18, 1968	IN CHARGE
DETAILED BY A.C. WEBER	FABRICATION CONT. NO. WTC 221	SHEET NO. ST207E



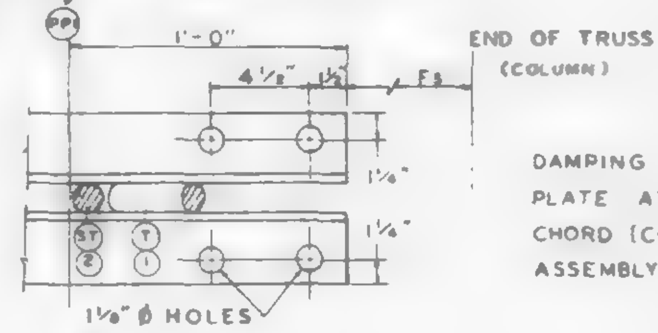
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A



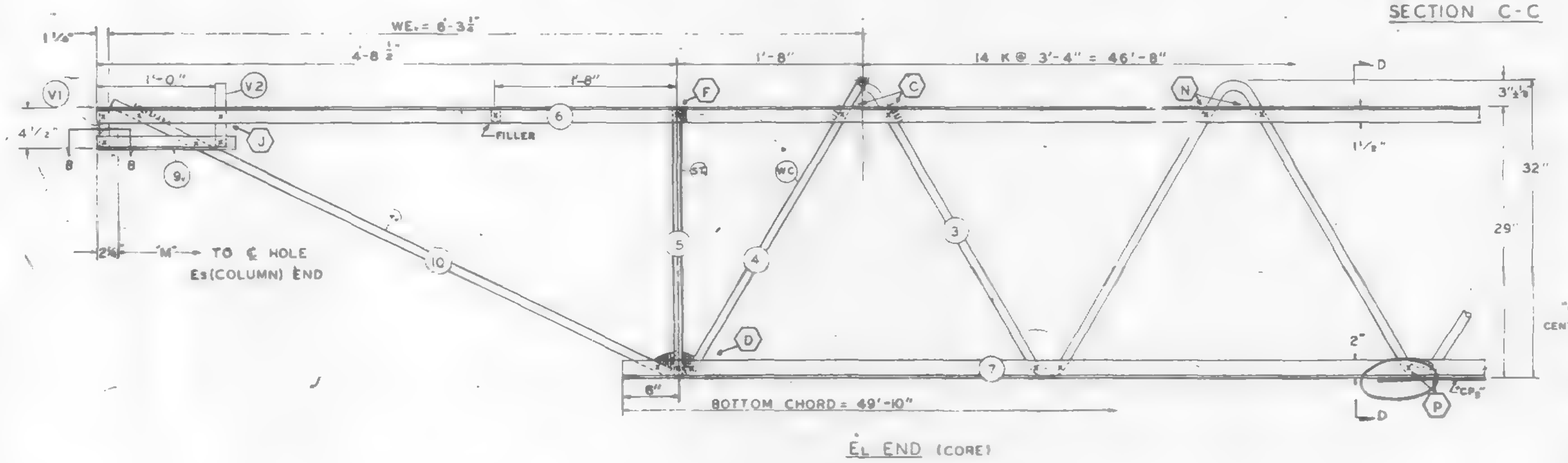
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291,
AND ST280.

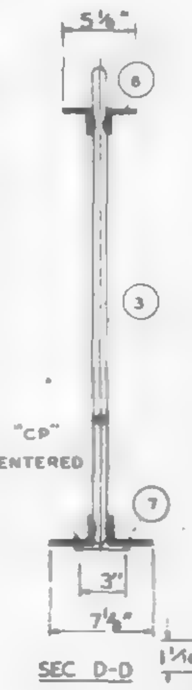
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, ie., [R-6].

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00.

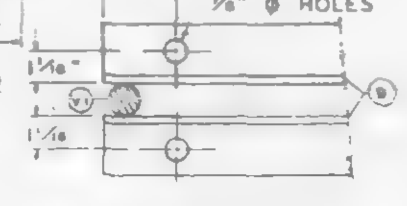
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	[illegible]
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



EL END (CORE)



SEC D-D



SECTION B-B

REF DRWGS

7-AB1-4	4-15-68
7-AB1-52	2-15-68
7-AB1-53	4-1-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.3	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	TRUSS DATA		CHORD PLATE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA				MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7E-593	6	A242	2"x1½"x 31	59'-3"	7	A36	3"x 2"x 33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	58'-9¾"			CP	A36	¼x3	30'-0"	CP2	A36	¼"x3	10'-0" [11'-0"]

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7E-593	9	A242	2"x1½"x 25	1'-10"	6'-1¼"		A36	1.09	6'-5"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅝"	"	1.09	2'-9⅛"	DS1	A242	.92	5'-11"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE1	DIAGONAL "T1" STRUT				VERTICAL "ST1" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7E-593	91	A242	2"x1½"x 25	1'-2"	6'-3½"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4¾"	A242	1.14	4⅞"	A242	1.14	7⅞"	—	—	—	4	A242	1	1.14	3'-0½"	-	—	—	—	—

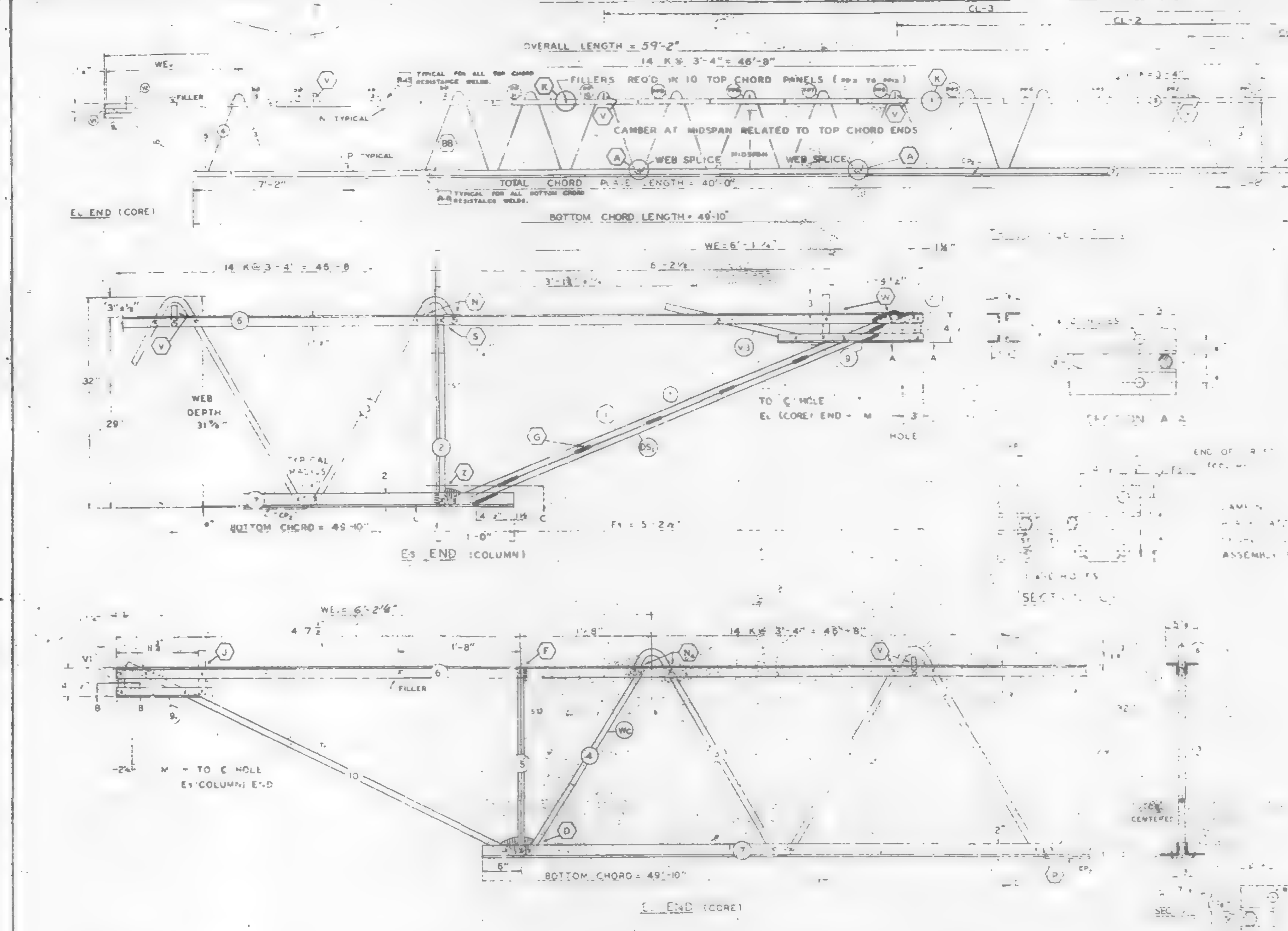
4/26/68 SR

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-4 7-AB3-2	PLATE
APPROVED FOR FABRICATION DATE BY FOR P.O.N.Y.A.	DRAWN BY [signature] DATE APR. 18, 1968	
APPROVED FOR FABRICATION DATE BY FOR FABRICATOR	CHECKED BY T.M. CHURA DATE APR 18, 1968	IN CHARGE OF PROD. DEV.
DETAILED LACLEDE STEEL CO. F.C. WEBER	FABRICATION CONT. NO. WTC 221	SHEET NO. ST207E



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2⅛"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL	3'-4"	± 1/4"
OVERALL LENGTH	59'-2"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293
AND ST286

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, e.g. A
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, R-6

ASSEMBLY BY CONTRACT WTC 223.00.

LACLEDE ELECTRIC ... RED. No. 1003

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" C-C HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE LENGTH
C32T'F 592	6	A242	2 ... 3	59-2"	7	A36	... 2" x 3	49'-0"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.09	58 8¾	4	1.09"	3"	CP	A36	... 40'

ES END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
COLUMN END	C32T'F 592	9	A242	2" x 3" x 25	3	6'			.9	6'-3⅛"	2	A36	1.09	2' 4⅞"	A36	1.09	4⅜"	A36	1.09	2-9"	D5	A242	92	5'-3"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	ES
9'-6½"	22'-10"	35'-2½"	49'-6	5'-2"

EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
CORE END	C32T'F 592	9	A242	2" x 3" x 25		6'-2⅞"	10	A242	1.14	5'-0⅛"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—		4	A242	1	1.14	2'-10"	-	—	—	—	—

STEEL TRUSS DETAILS

C32T'F 59'-2" OVERALL

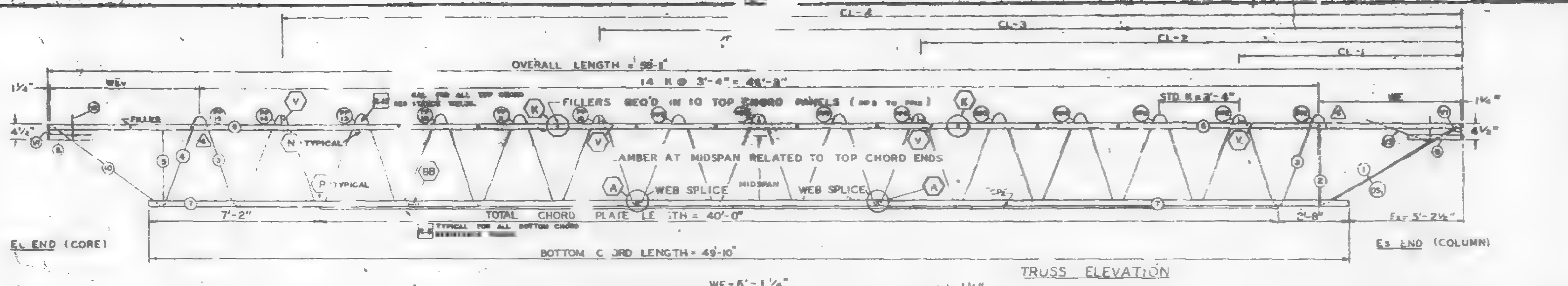
WORLD TRADE CENTER ... A-B

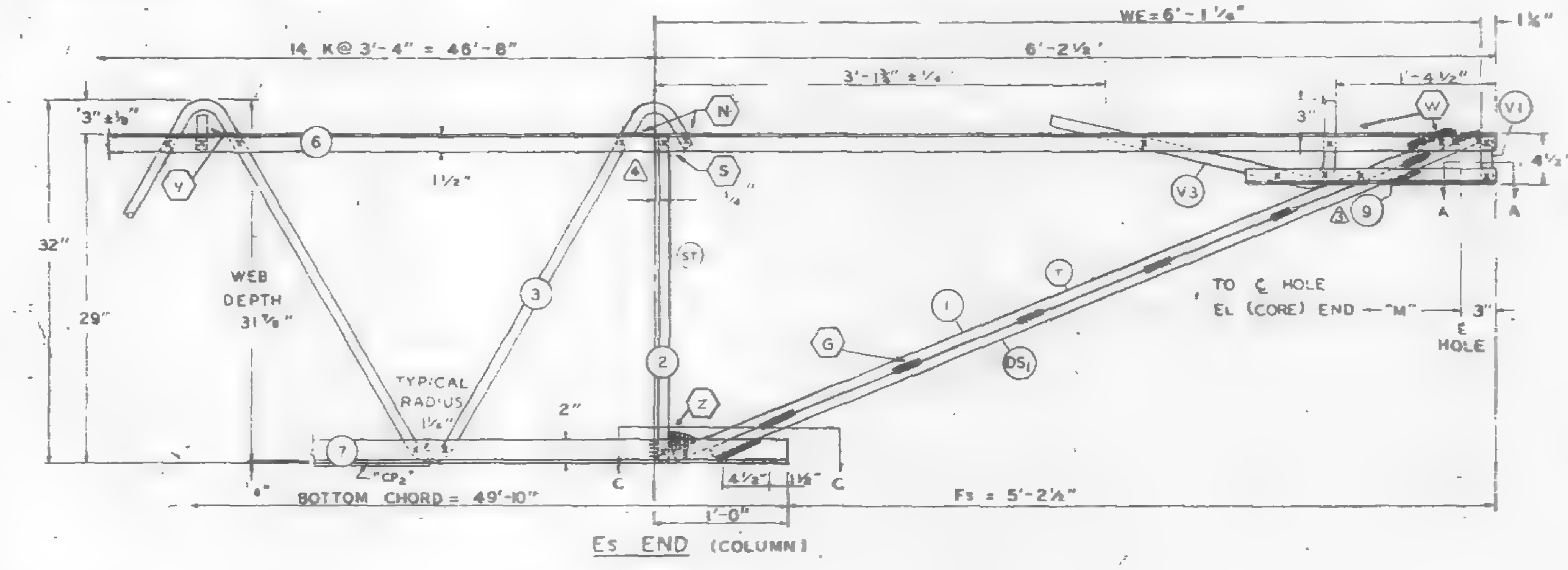
James White

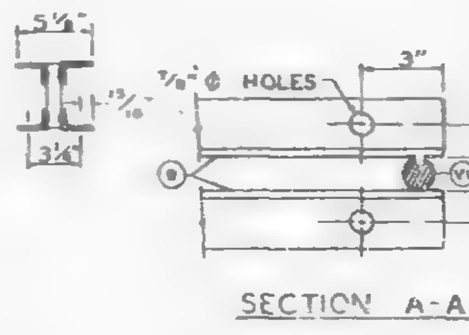
MAR 6, 1969

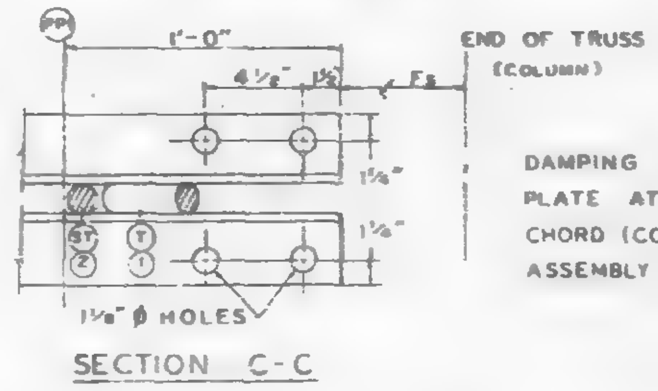
221

ST207F







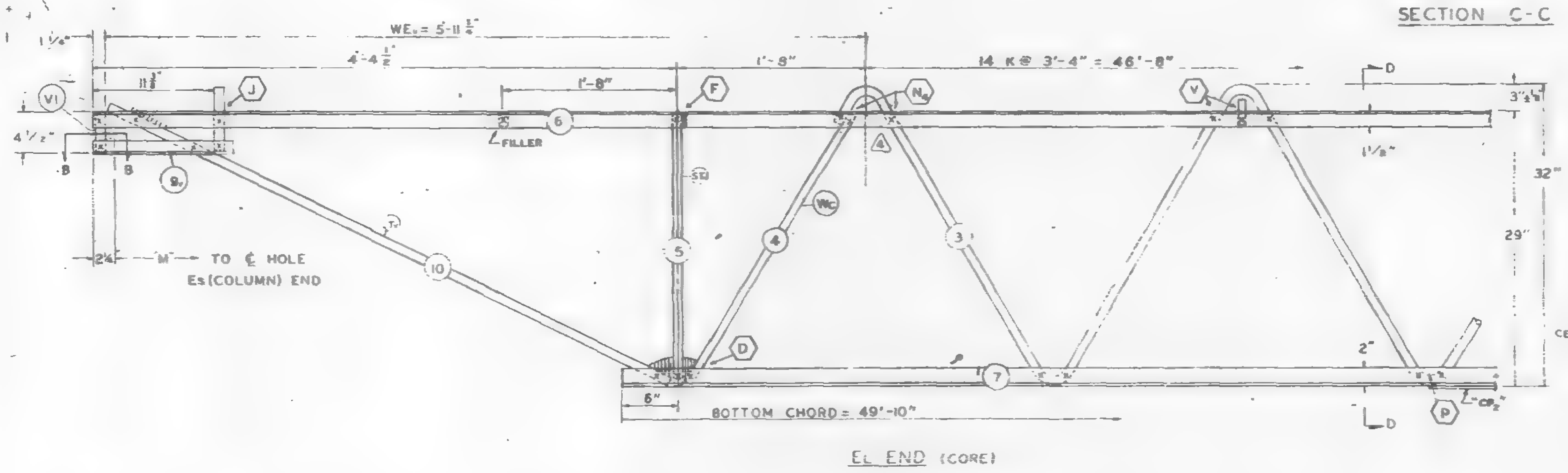


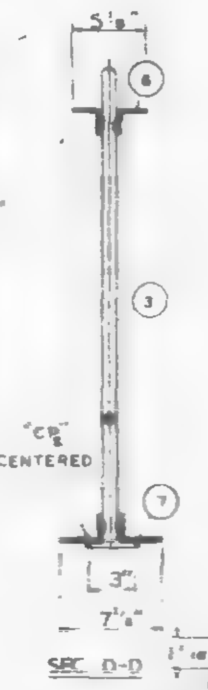
ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293
AND ST280.

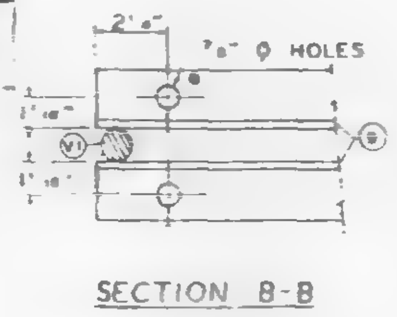
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R-6].

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00.

FABRICATION REQUIREMENTS	DESIGN	TOLERANCES
CAMBER AT MIDSPAN	2⅛"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-11"	± 3/8"
WEB - DEPTH	31 7/8"	± 1/4"







NO.	DATE	REVISION	
4	12-9-68	AS NOTED	G.D.C.
3	7-22-68	MK (9) LENGTH	T.M.C.
2	6-22-68	GENERAL	T.M.C.
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

(4) REF DRWGS

7-AB1-4	7-22-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-69
7-AB4-50 S	10-20-67

PAINT -
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	(4) LENGTH	NO OF K	NO	DIA		NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7G-58II	6	A242	2"x1½"x.31	58'-11"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.09	58'-5¾"	4	1.09"	3"	CP	A36	¼x3	40'-0" (1)

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
Es END		MK	TYPE STEEL	CHORD SIZE	(3) LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	(4) LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7G-58II	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36 (1)	1.09	6'-3⅛"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅜"	A36	1.09	2'-9½"	DS1	A242 (1)	.92	6'-3⅛"

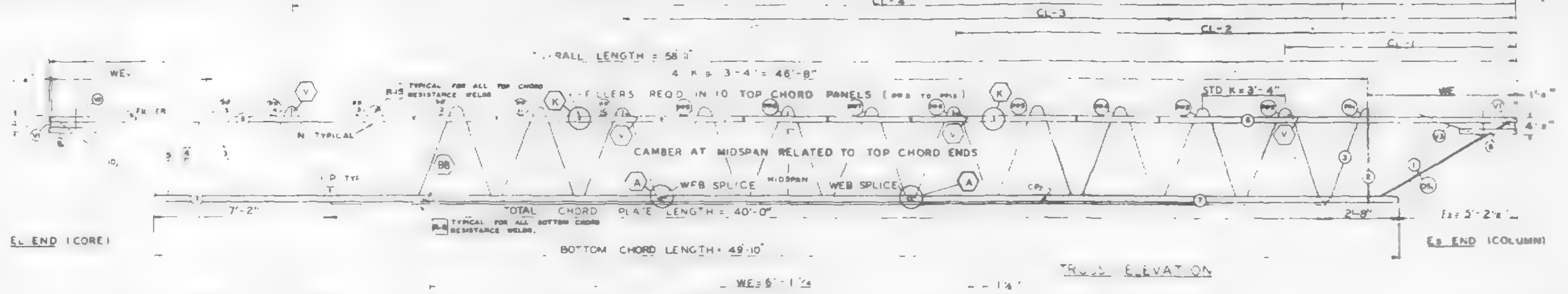
CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-5½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END	TRUSS DESIGNATION	BEARING ANGLES				WE1	DIAGONAL "T1" STRUT				VERTICAL "ST1" STRUT				STIFFENER MK. V1			STIFFENER MK. V2			STIFFENER MK. V4			WEB "WC"					WEB "WT"				
EL END		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	(4) LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	(4) LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7G-58II	9	A242	2"x1½"x.25	1'-1¼"	5'-11¼"	10	A242	1.14	4'-9¼"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅛"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-10"	-	—	—	—	—

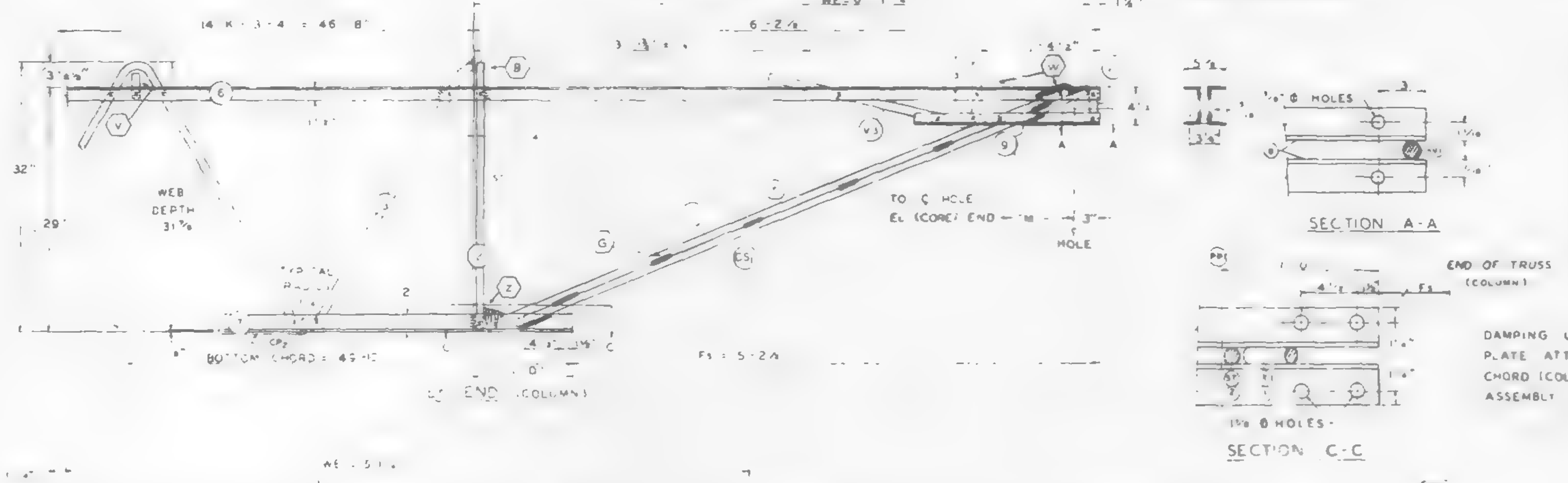
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-4 7-AB3-2 PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. DATE 12/12/68
DRAWN BY [signature] DATE APR. 18, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE APR. 18, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY A.C. WEBER
FABRICATION CONT NO WTC 221
SHEET NO. ST207G



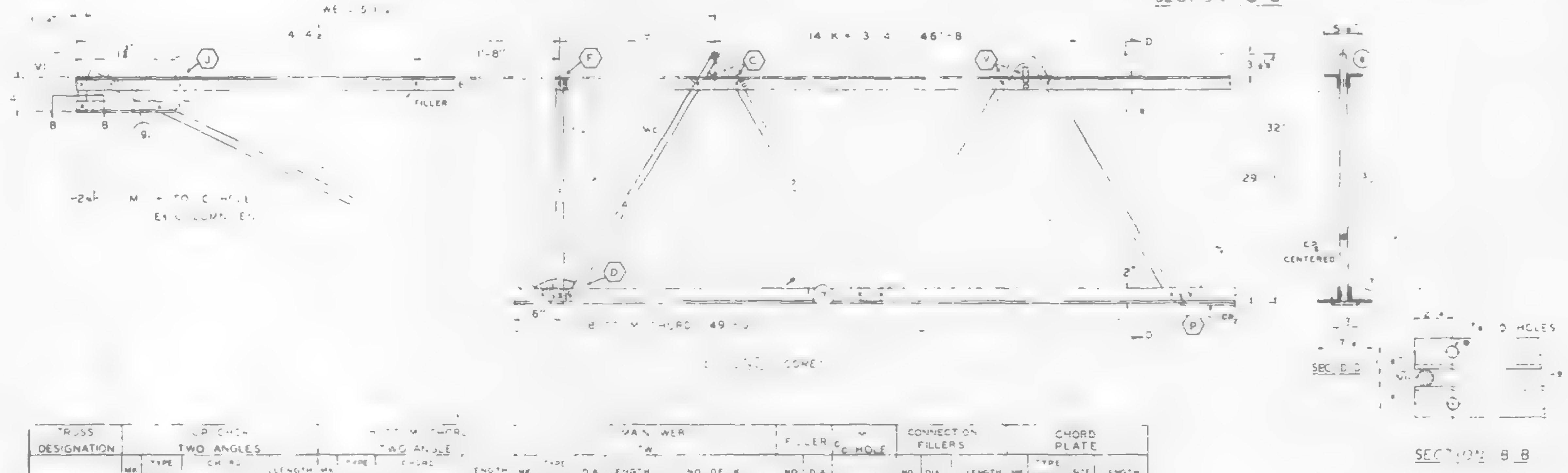
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2¼"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3' 4"	± 1/4"
OVERALL LENGTH	58' 11"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



ALL PANEL POINTS RESISTANCE WELDED (R).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292
AND ST280

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, i.e., R-6.

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00.



NO	DATE	REVISION	BY
3	7-22-68	MK 9	T.M.C.
2	6-22-68	GENERAL	T.M.C.
1	5-27-68	CHORD PLATE, WELD, DIAGONAL	T.M.C.

REF DRWGS

ABI 4	4 5 68
AB 52	2 15 68
ABI 53	4 -68
AB4 50 & 50 2	10 20-67
AB 2	68
AB4 50	20 67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLE MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T7G 58	6	A242	2"x[illegible]	58'11"	7	A36	3"x2"x 33	49' [illegible]	3	A36	1.09	8" 2'½"	4 x 3 4' = 46'-8"	1	1.09	58 5¾"	4	1.09	3	9	A36	[illegible]	4[illegible]

COLUMN END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL ST STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T7G -58'	9	A242	2"x 2"x 25	2' 3	6"		A36	1.09	6'-3⅛"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅞	A36	1.09	2'-9"	DS	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB

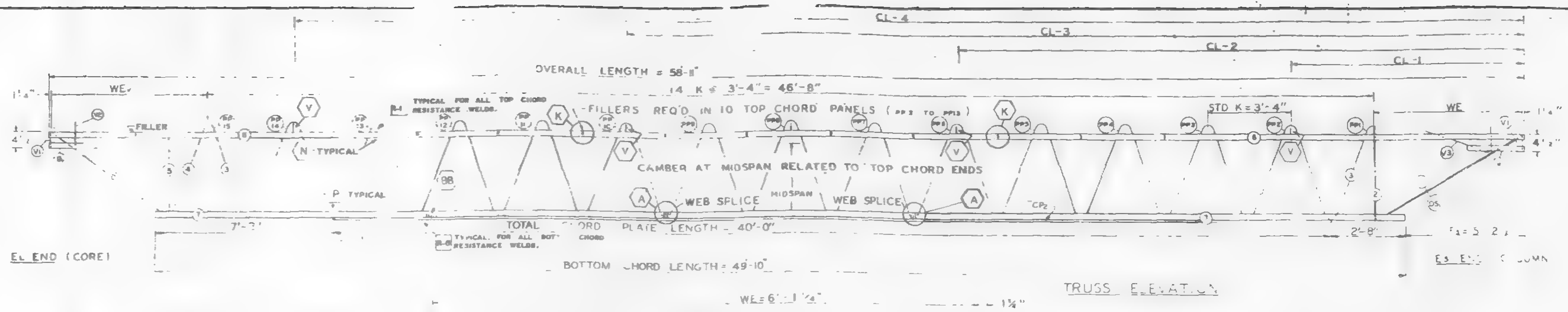
LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

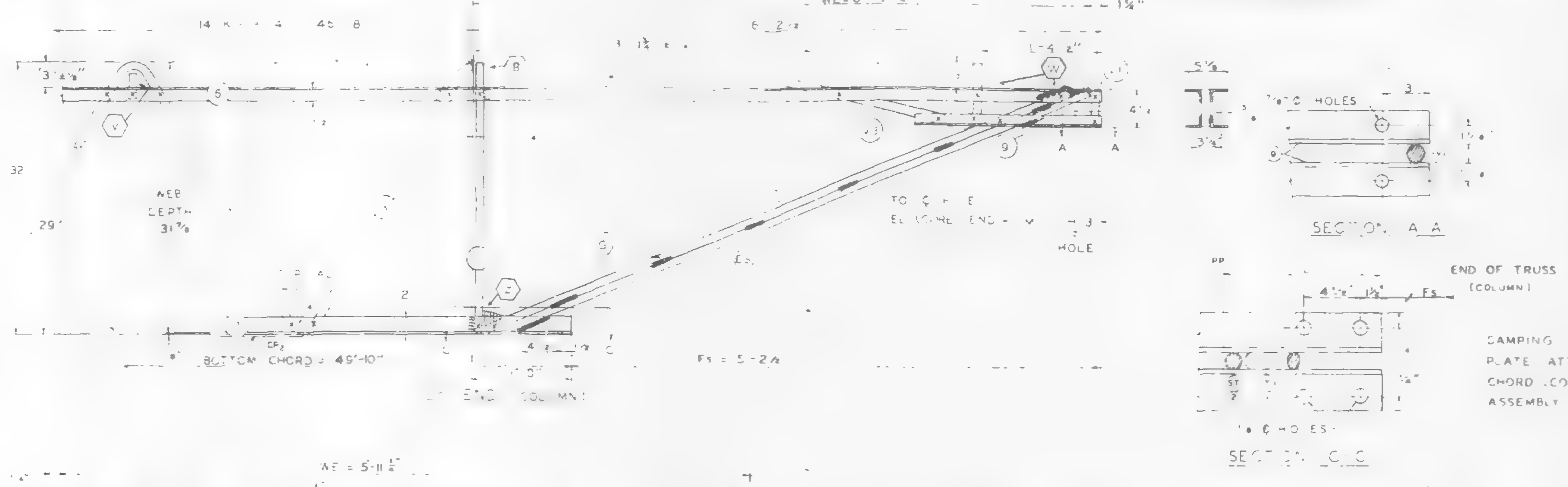
EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL ST STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7G 581	9	A242	2"x 3"x 25	[illegible]	5	0	A242	1.14	4 9½	5	A242	1.4	2'-4¾"	A242		4½	A242	1.4	7½"	—	—		4	A242	1	1.14	3'-0½"	-	—	—	—	—

FLOOR TRUSS C32T7G 58'11" OVERALL
WORLD TRADE CENTER TOWER A-B

APP 8, 968
221
ST207G



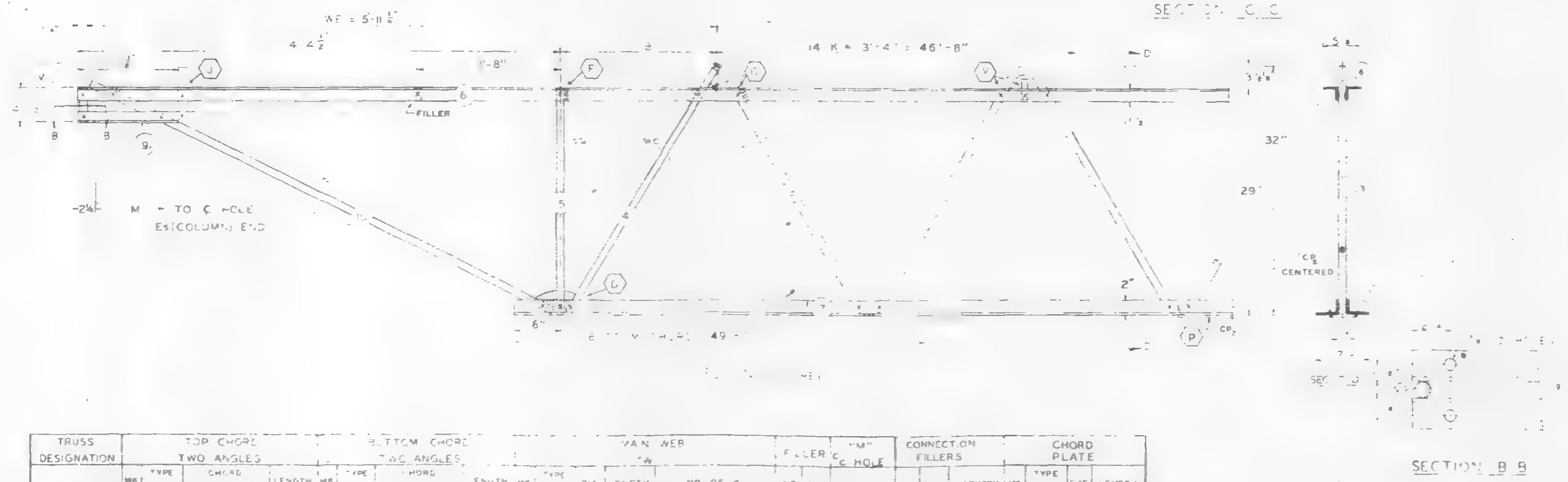
FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	$2\frac{1}{16}$"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-11"	± 3/8"
WEB DEPTH	7 8"	± [illegible]



ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST235 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



NO.	DATE	REVISION	BY
2	6-22-68	GENERAL	T.V.C.
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

REF. DRWGS

T-AB1-4	4-15-68
T-AB-52	2-15-68
T-AB1-53	4-1-68
T-AB4-50 & 50-2	10-20-67
AB3-2	[illegible]
AB4-50-5	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" C-C HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T7G-58II	6	A242	2"x1½"x [illegible]	58'-11"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	58'-5¾"	4	1.09"	3"	CP	A36	4x3	40'-0"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T7G-58II	9	A242	2"x1½"x.25	2'-0"	6'-1¼"		A36	1.09	6'-3⅛"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅜"	A36	1.09	2'-9½"	DS	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

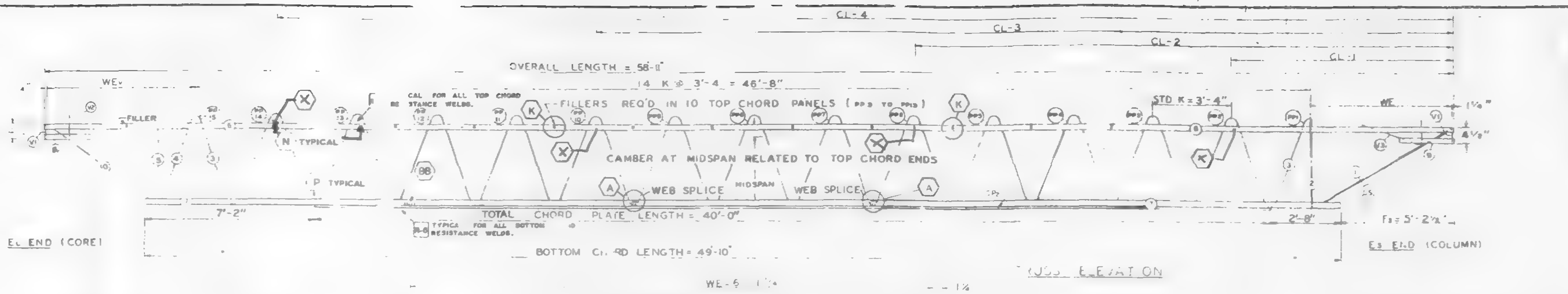
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

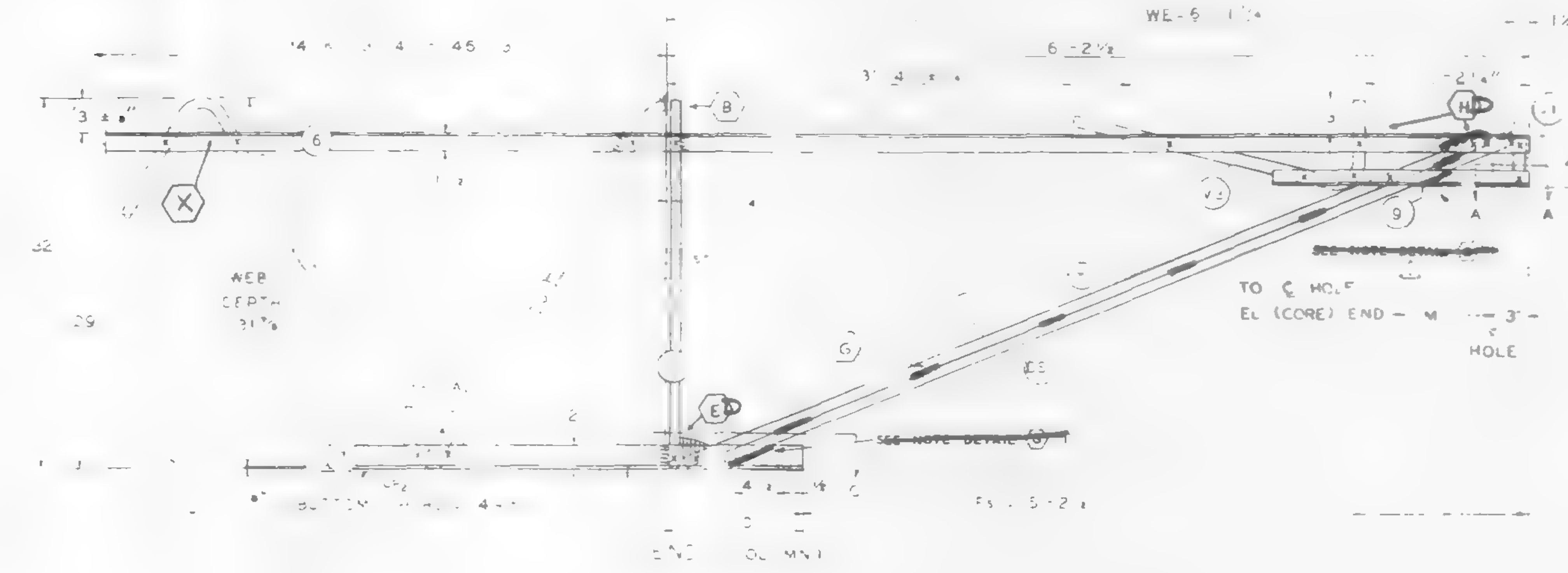
EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK J2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA.	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7G-58II	9	A242	2"x[illegible]"x.25	[illegible]1½	5'-1½"	0	A242	1.14	4 9½	5	A242	.4	2'-4¾"	A242	.14	4	A242	1.14	7	—	—	—	4	A242	1	1.14	3'-0½"	-	—	—	—	—

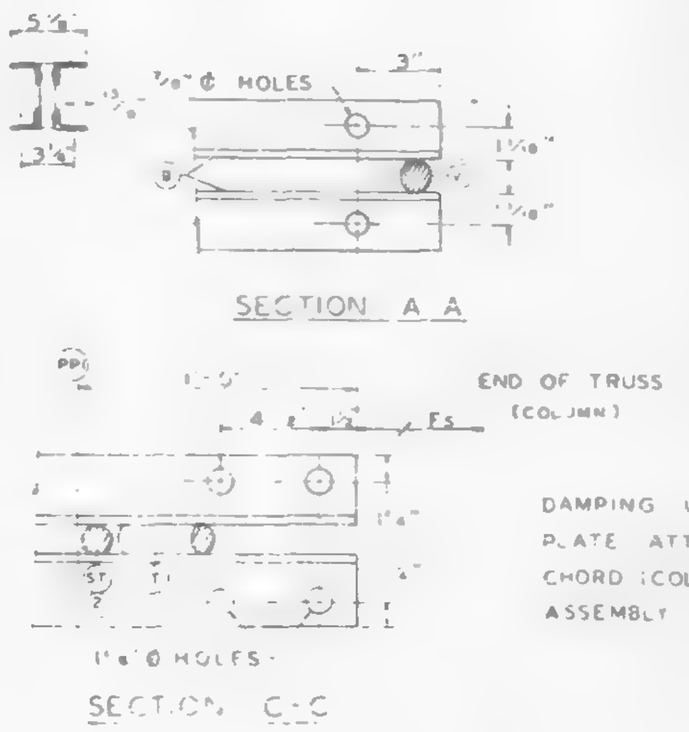
WORLD TRADE CENTER TOWER A-B
C32T7G

APPROVED FOR FABRICATION 6/25/68
APR 18, 1968
T. M. CHURA
APR 8, 1968
T-AB-4 T-AB3-2
ST207G



FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-1"	± 3/8"
WEB DEPTH	8"	± 1/4"

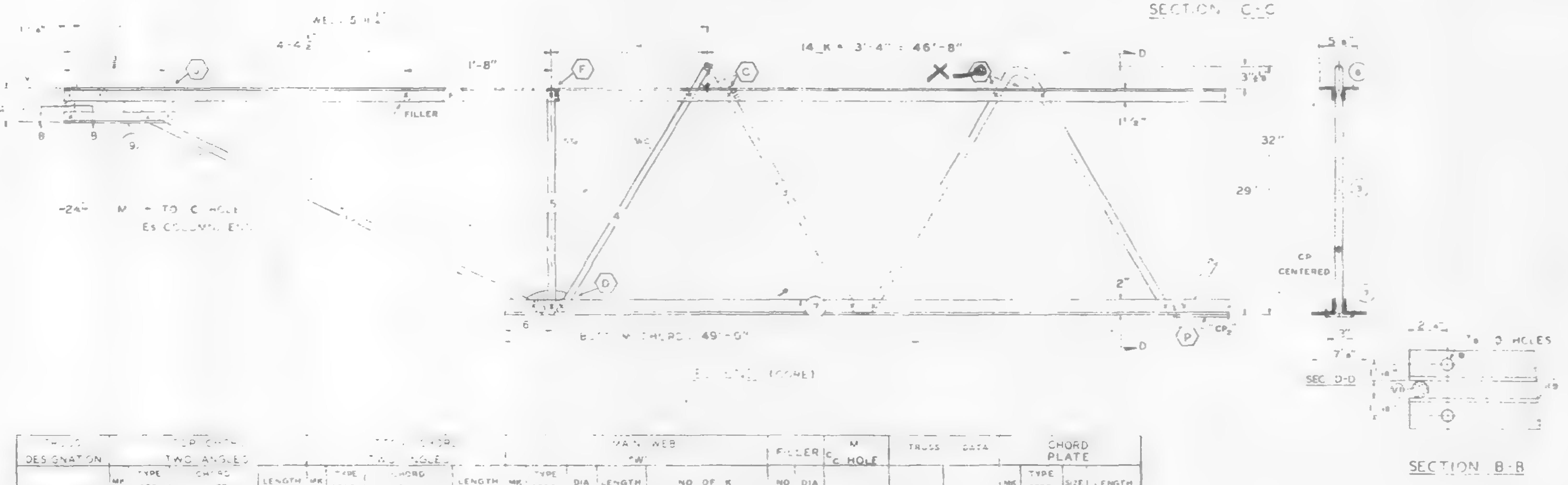




ALL PANEL POINTS RESISTANCE WELDED (X).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R-B.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



6/12/68 WAB

NO.	DATE	REVISION	BY
1	5-27-68	CHORD PLATE, WELD, T DIAGONAL	T.M.C.

REF DRWGS

7-ABI-4	4-5-68
7-ABI-52	2-15-68
7-ABI-53	4-1-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	
7-AB4-50	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	M ℄-℄ HOLE	TRUSS DATA		CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T7G-58'11"	6	A242	2"x1½"x.3	58'-11"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	58'-5¾"			CP	A36	4x3	40'-0"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T7G 58	9	A242	2"x1½"x.25	-0'	6'-4"		A36	.09	6'-3⅛"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅜"	A36	1.09	2'-9½"	DS	A242	.75	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

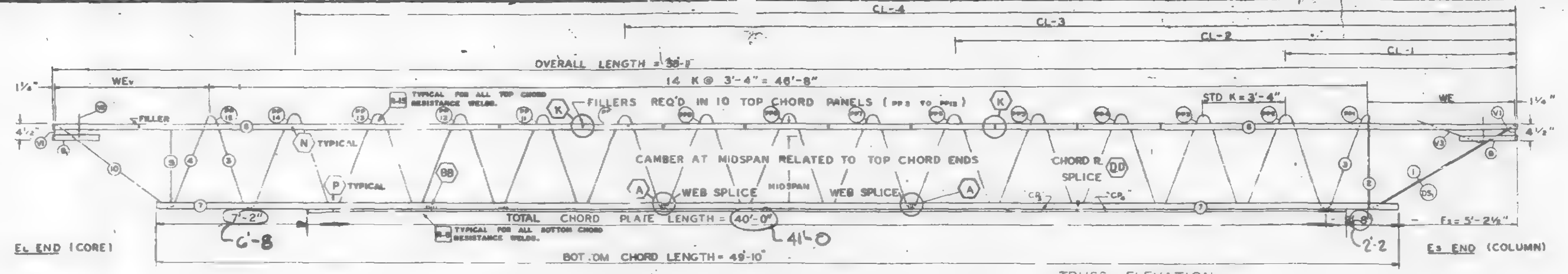
EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENG	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T7G 58'	9	A242	2"x1½"x.25	1'-1½"	5 ½	10	A242	1.14	4'-9½"	5	A242	1.14	2'-4¾"	A242	1.14	4½	A242	1.14	7¾	—	—		4	A242		1.14	3'-0⅛"		—	—	—	—

STEEL TRUSS DETAILS

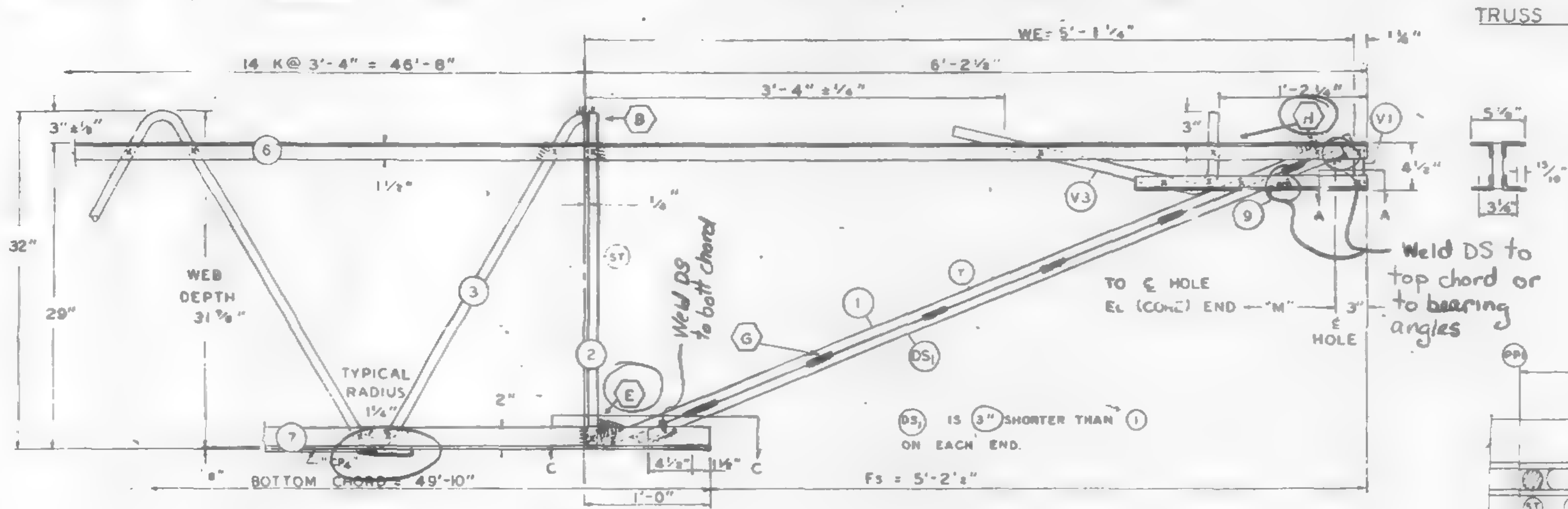
FLOOR TRUSS C32T7G 58'-11" OVERALL

WORLD TRADE CENTER TOWER A-6

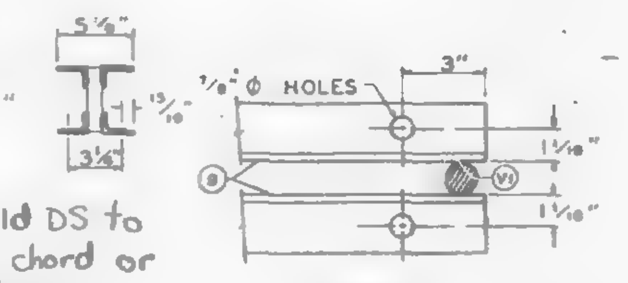
APPROVED FOR FABRICATION DATE APR 18, 1968
APPROVED FOR FABRICATION BY T.M. CHURA APR 18, 1968
DETAILED BY A.L. WEBER 221 ST207G



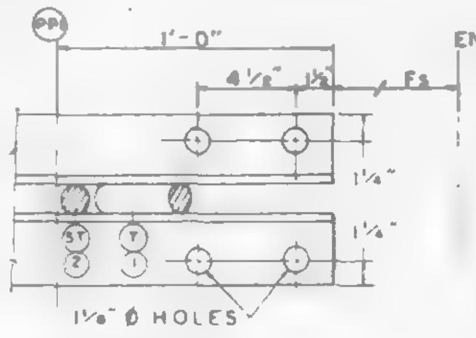
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A



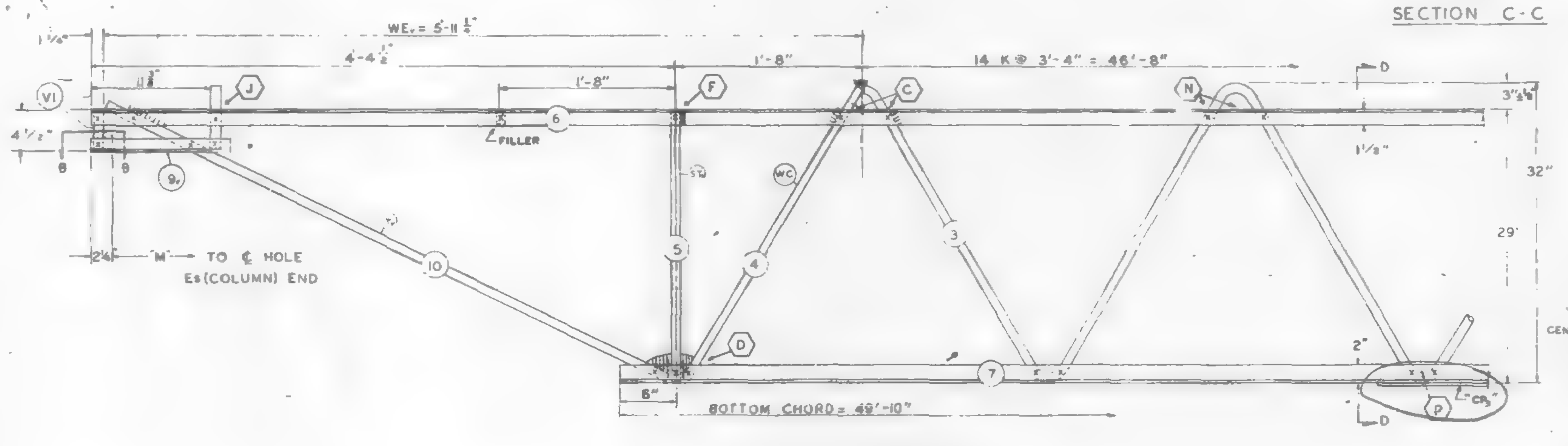
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.

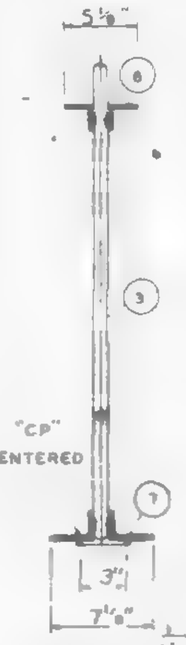
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

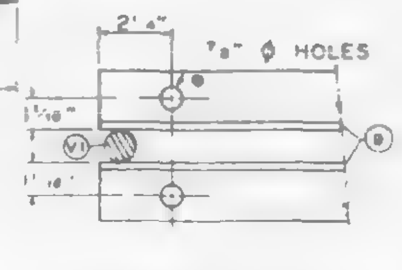
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-11"	± [illegible]/8"
WEB DEPTH	31 7/8"	± 1/4"



EL END (CORE)



SEC D-D



SECTION B-B

REF DRWGS

7-AB1-4	4-15-68
7-AB1-52	2-15-68
7-AB1-53	4-1-68
7-AB4-30 & 30.2	10-20-67
7-AB3-2	1-3-68
7-AB4-30 S	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLE	TRUSS DATA		CHORD PLATES							
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA				MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7G-5811	6	A242	2"x1½"x 31	58'-11"	7	A36	3"x 2"x 33	49'-10"	3	A36	1.09	87'-2½"	14 @ 3'-4" = 46'-8"	11	1.09	58'-5¾"			CR	A36	¼x3	30'-0"	CP	A36	¼x 3"	10'-0" — 11'-0"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7G-5811	9	A242	2"x1½"x 25	1'-10"	6'-1¼"	1	A36	1.09	6'-5"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅜"	[illegible]	[illegible]09	2'-9[illegible]"	DS1	A242	.92	5'-11"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

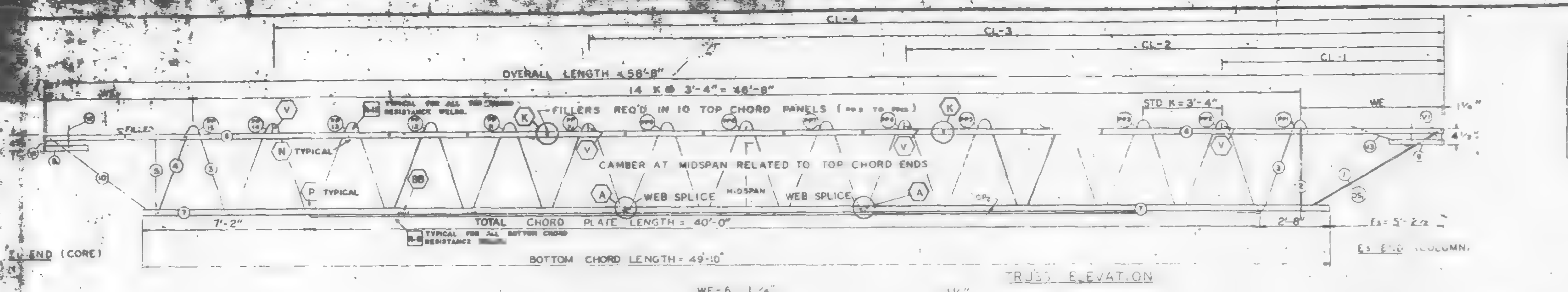
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7G-5811	9v	A242	2"x1½"x 25	1'-1½"	5'-11½"	10	A242	1.14	4'-9½"	5	A242	1.14	2'-4¾"	A242	1.14	4⅞"	A242	1.14	7⅞"	—	—	—	4	A242	1	1.14	3'-0½"	-	—	—	—	—

4/26/68 SK

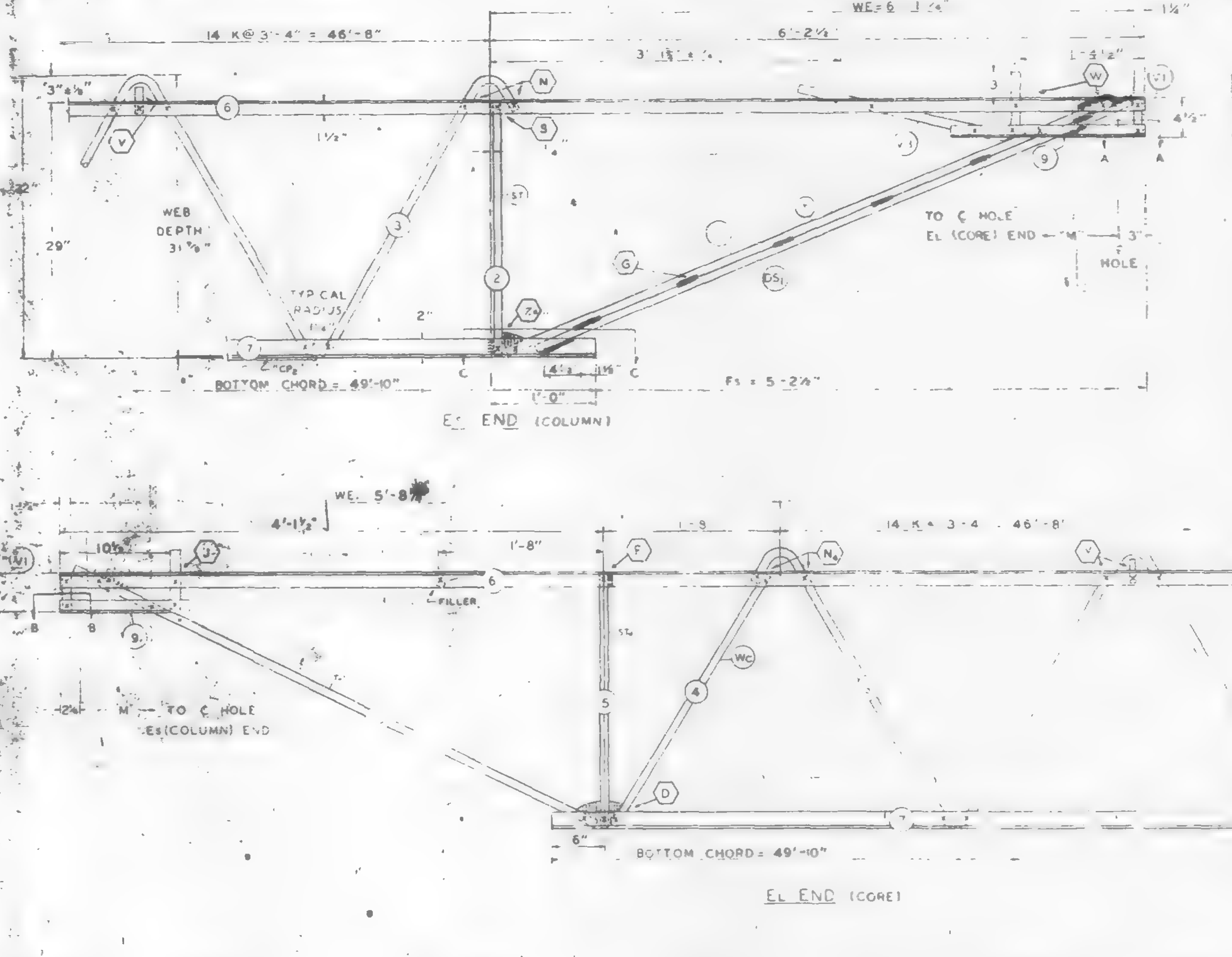
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

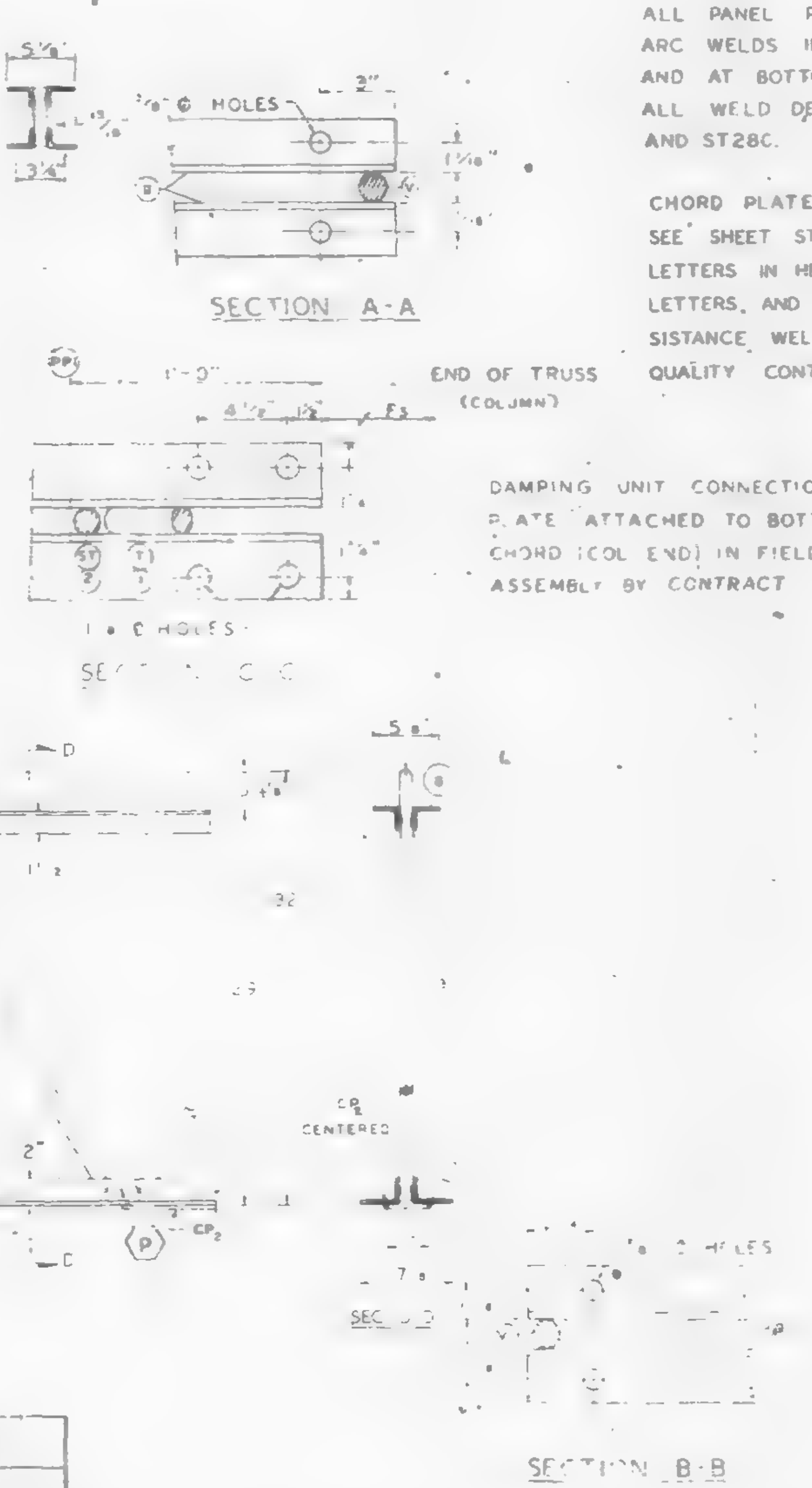
FLOOR TRUSS C32T7G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-4 7-AB3-2	PLATE	
APPROVED FOR FABRICATION BY FOR P O N Y A	DATE	DRAWN BY [illegible] DATE APR 18, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M CHURA DATE APR 18, 1968	IN CHARGE OF PROD DEV
DETAILED BY A C WEBER		FABRICATION CONT NO WTC 221	SHEET NO ST207G



FABRICATION REQUIREMENTS	DESIGN	[illegible]
CAMBER AT MIDSPAN	2½"	[illegible]
DESIGN DEPTH	29"	[illegible]
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293
AND ST28C.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS, AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R-6].

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00.

NO.	DATE	REVISION	BY

REF DRWGS

7-AB1-4	7-22-68
7-AB-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	[illegible]
7-AB4-505	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO.	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7H 588	6	A242	2"x1½"x.31	58'-8"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.09	58'-2¾"	4	1.09"	3"	CB	A36	¼x3	40'-0"

COLUMN END

Fs	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7H 588	9	A242	2"x1½"x.25	2'-8"	6'-1¼"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-4⅛"	A36	1.09	4⅞"	A36	1.09	2'-9⅛"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

NO	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7H 588	9	A242	2"x1½"x.25	1'-0½"	5'-8"	10	A242	1.14	4'-7"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅞"	A242	1.14	7⅞"	—	—	—	4	A242	1	1.14	2'-	-	—	—	-	—

LACLEDE ELECTRIC BOAT

STEEL TRUSS DETAILS

WORLD TRADE CENTER N.Y.C.

[illegible] PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7H 58'-8" OVERALL

WORLD TRADE CENTER TOWER A-B

COMPANY

7-AB1-4 7-AB3-2

James White 4/15/69

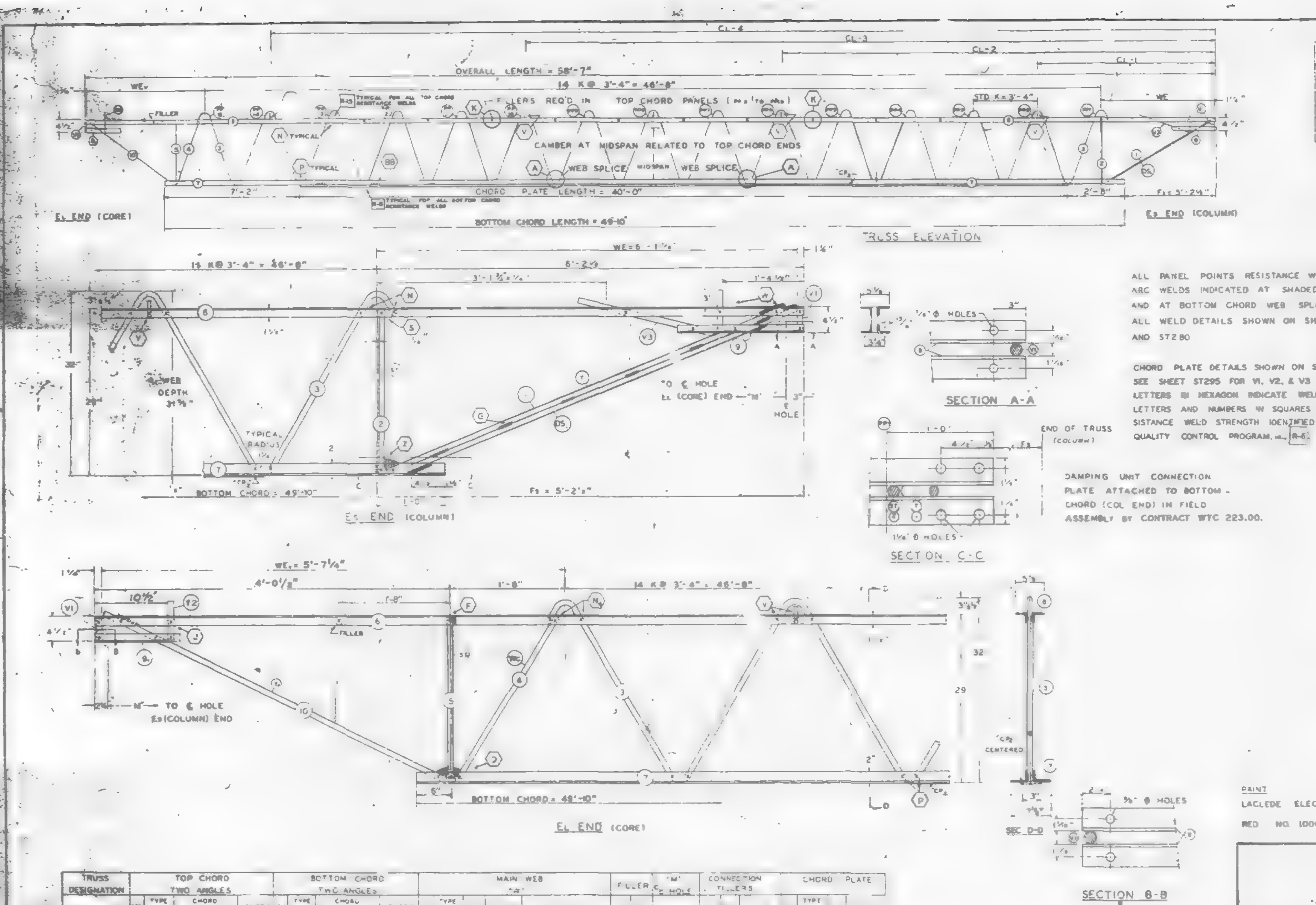
DRAWN BY: [illegible] DATE APRIL 10, 1969

CHECKED BY: T.M. CHUGA DATE APRIL 10, 1969

LACLEDE STEEL CO.

221

SHEET NO. ST207H



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/2"	[illegible]
DESIGN DEPTH	33"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-7"	± 3/8"
WEB DEPTH	[illegible]	[illegible]

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [R-6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

REF DRWGS

7-AB1-4	7-22-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.9	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7J-587	6	A242	2"x1 1/2"x 3	58'-7"	7	A36	3"x2"x 33	49'-10"	3	A36	.09	88'-1 1/8"	14 @ 3'-4" = 46'-8"	1	.109	58 1/2	4	.109	3"	CP_{21}	A36	[illegible]	40'-0

	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			DOUBLE STRUT			
COLUMN END (Es END)		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7J-587	9	A242	2"x1 1/2"x 25	2' 3"	6'-1 1/4"	1	A36	.09	6'-3 7/8"	2	A36	.109	2'-4 7/8"	A36	.109	4 3/8"	A36	.109	2'-9"	DS	A242	.92	6'-3 7/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

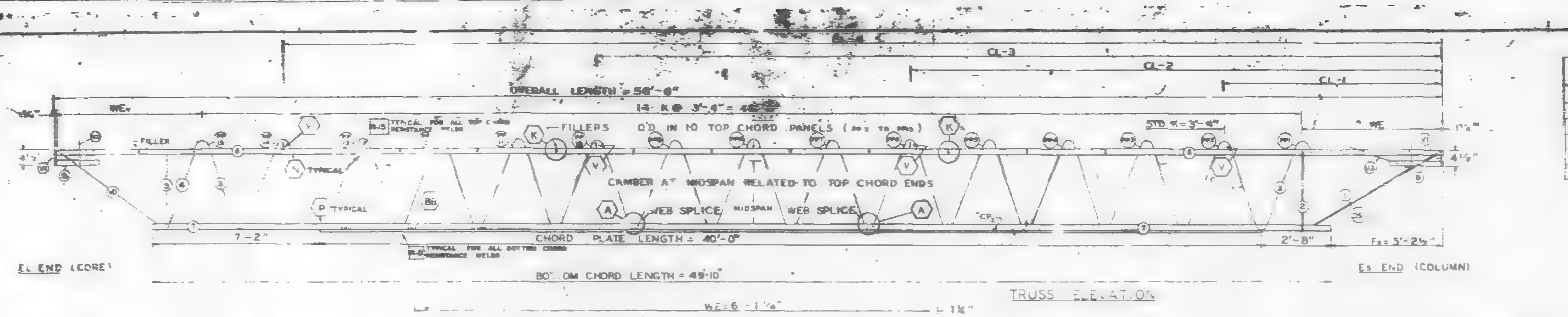
	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "D" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "WC"					WEB "WT"				
CORE END (El END)		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7J-587	8	A242	2"x1 1/2"x 25	1'-0 1/2"	5'-7 1/4"	0	A242	.114	4'-6 7/8"	5	A242	.114	2'-4 7/8"	A242	.114	4 1/8"	A242	.114	7 1/8"	—	—	—	4	A242	1	.114	2'-10"		—	—	—	—

STEEL TRUSS DETAILS
[illegible] CENTER N.Y.C.
THE PORT OF NEW YORK AUTHORITY

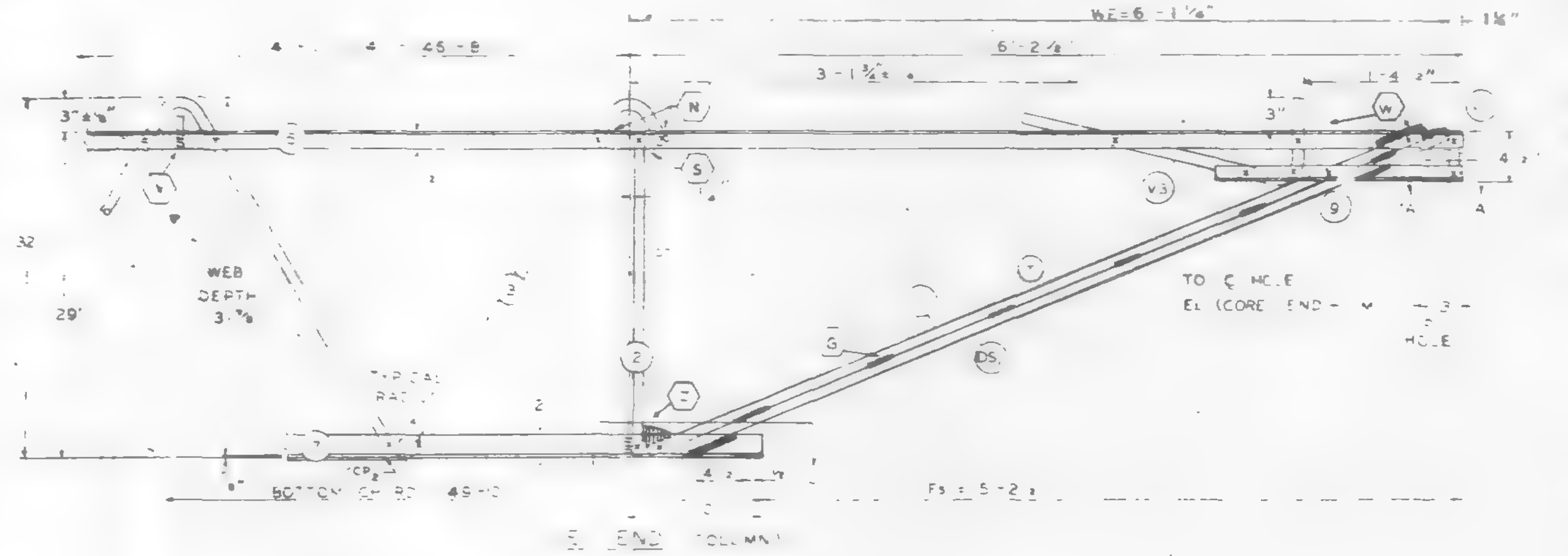
FLOOR TRUSS C32T7J 58'-7" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY
DESIGN DRAWING NO 7-AB1-4 7-AB3-2 PLATE
James White 1/29/69
DATE JAN 7, 1969
T.M. CHURA IN CHARGE OF PROD DEV
JAN 7, 1969
CONT NO 221 SHEET NO ST207J

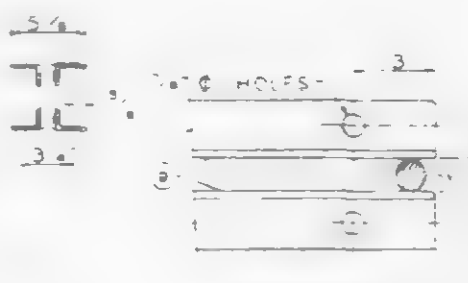
FABRICATION REQUIREMENTS		
	[illegible]	
[illegible]	2⅝"	
DESIGN DEPTH	20"	⅞
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-6"	± 3/8"
WEB DEPTH	31 7/8"	± 1/



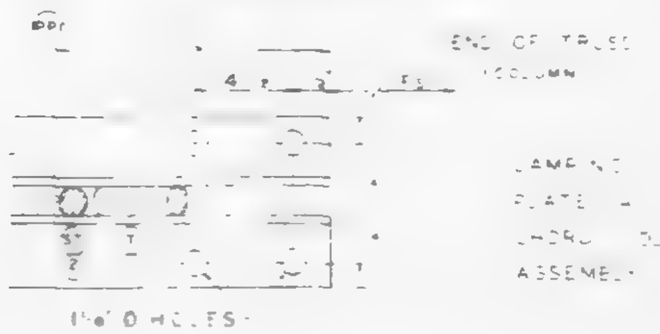
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A

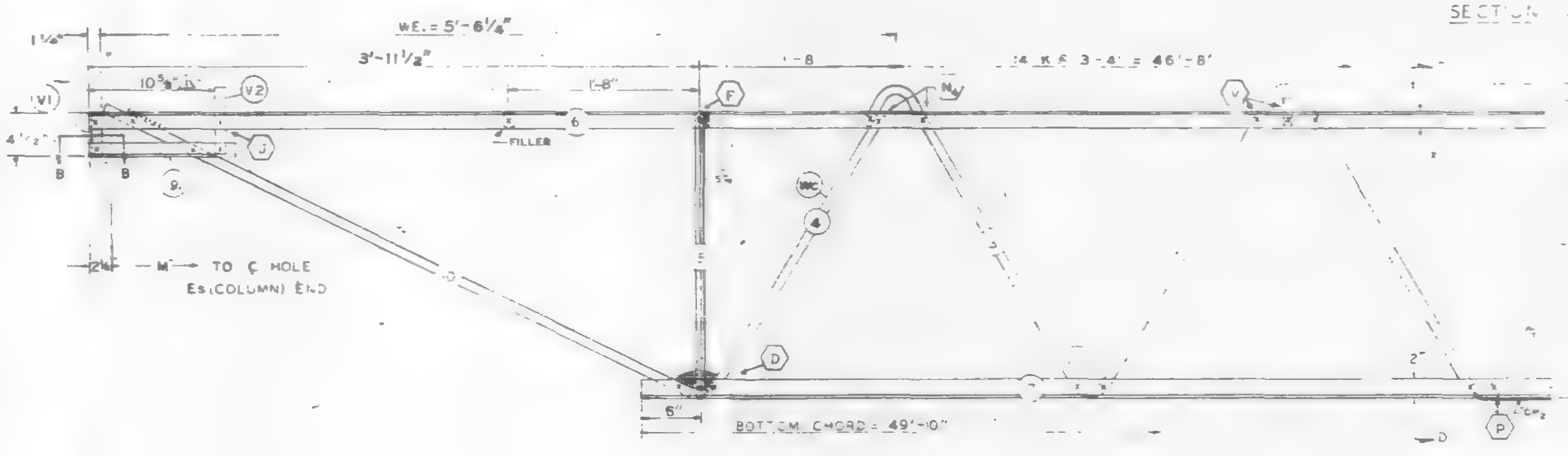


SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED [illegible]
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 ST291, ST292, ST293,
AND ST2[illegible]

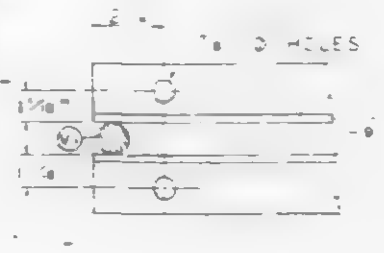
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD EL END IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



El END (CORE)

SEC D-D



SECTION B-B

NO.	DATE	REVISION	BY
1	2-13-69	AS NOTED	R.J.P.

REF DRWGS

7-AB1-4	7-22-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50 S	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄-℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7K-586	6	A242	2"x1½"x.3	56'-6"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	[illegible]	.09	58-9¾	4	1.09	3"	CP_2	A36	4x3	40-0

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7K-586	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3⅞"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅝"	A36	1.09	2'-9	DS	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

El END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7K-586	9	A242	2"x1½"x.25	1'-0½"	5'-6¼"	10	A242	1.14	4'-5¼"	5	A242	1.14	2'-4⅜"	A242	1.14	4⅞"	A242	1.14	7⅞"	—	—	—	4	A242	1	1.14	2'-10"	-	—	—	-	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

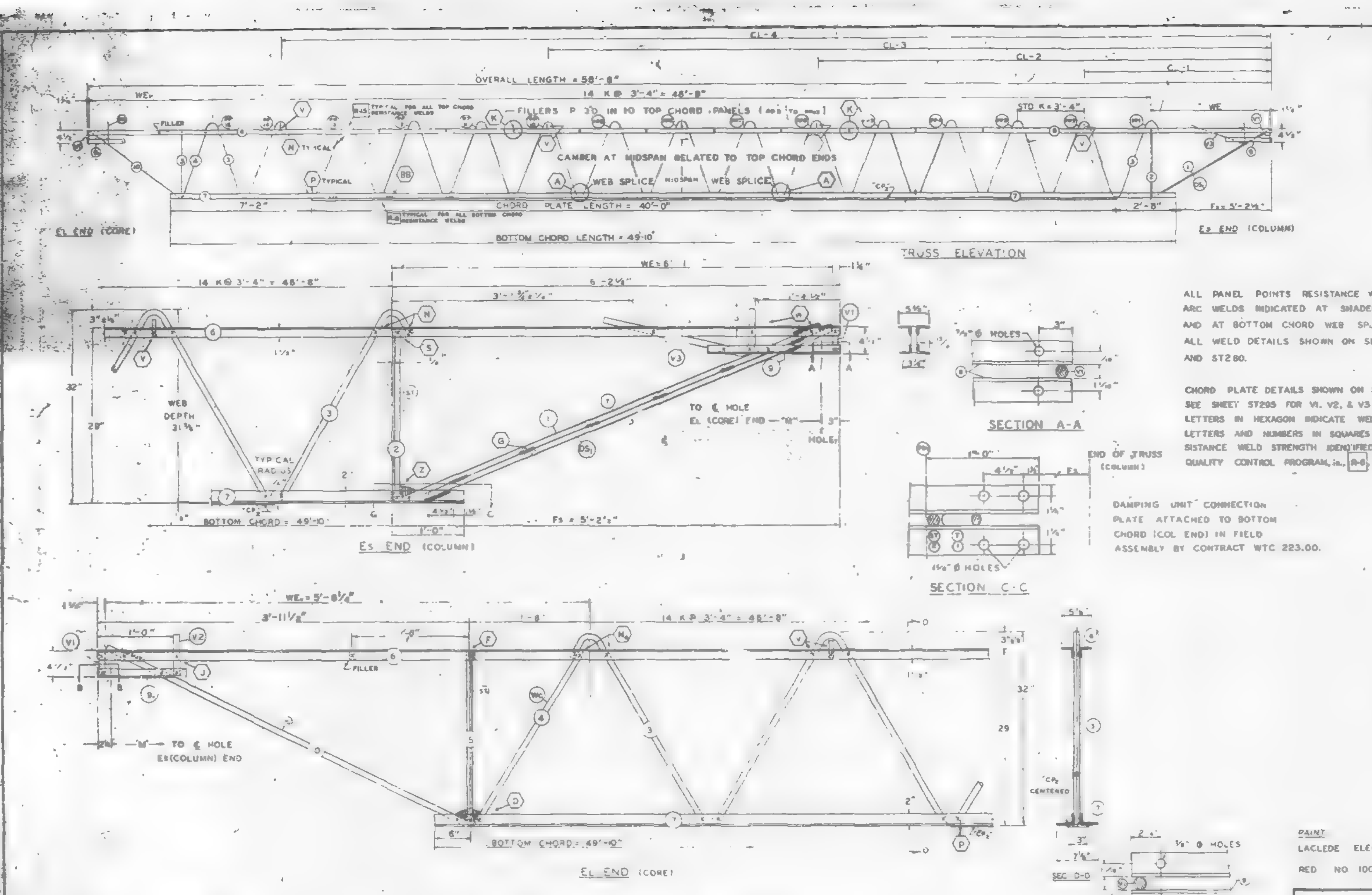
FLOOR TRUSS C32T7K 58'-6" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILL. — DESIGN DRAWING NO 7-AB1-4 7-AB3-2 PLATE
APPROVED FOR FABRICATION DATE 2/28/69 — DRAWN BY [illegible] DATE JAN. 7, 1969
APPROVED FOR FABRICATION DATE BY — CHECKED BY TMCHURA DATE JAN. 7, 1969 — IN CHARGE OF PROD [illegible]

LACLEDE STEEL CO.

DETAILED BY [illegible] — FABRICATION CONT NO WTC 221 — SHEET NO ST287K



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2½"	±3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.
AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R-6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

REF DRWGS

7-AB1-4	7-25-66
7-AB1-52	8-15-66
7-AB1-53	7-28-66
7-AB4-50	8-1-66
7-AB3-2	1-3-66
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"N" C-C HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T7K-586	6	A242	2"x1½"x 3	58'-6"	7	A36	3"x 2" x 33	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	8	1.09	58 9⅝	4	1.09	3"	CP2	A36	½x3	40'-0"

COLUMN END

E2 END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T7K-586	9	A242	2"x1½"x 25	2'-3"	6'-1¼"		A36	1.09	6'-3⅞"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅝"	A36	1.09	2'-9⅛"	DS	A242	.92	5'-3⅞"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS CL 1	CL-2	CL-3	CL 4	F2
9'-6½"	22'-10½"	36'-2½"	49'-8½"	5'-2½"

CORE END

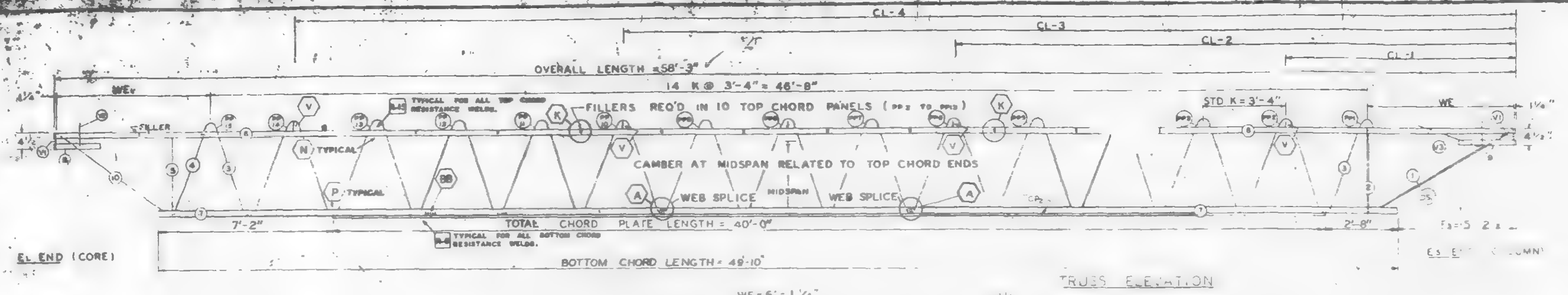
E1 END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T7K-586	9	A242	2"x1½"x 25	1'-0½"	5'-6¼"	10	A242	1.4	4'-5¼"	5	A242	1.4	2'-4⅝"	A242	4	4⅝	A242	1.14	7	—	—	—	4	A242		1.14	2'-10"	-	—	—	—	—

STEEL TRUSS DETAILS
WORLD TRADE CENTER - N Y C
PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T7K 58'-8" OVERALL
WORLD TRADE CENTER TOWER A-B

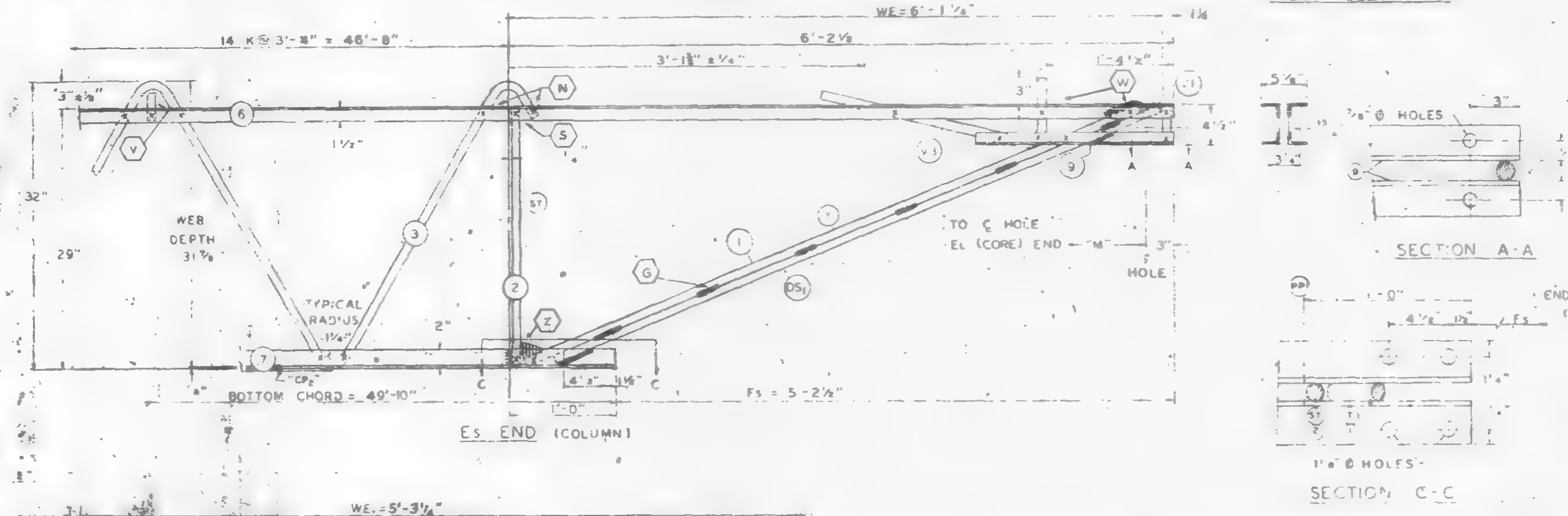
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-4 7-AB3-2	PLATE
APPROVED FOR FABRICATION FOR PONYA James White DATE 1/29/69	DRAWN BY DATE JAN. 7, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE JAN. 7, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER	FABRICATION CONT NO WTC 221	SHEET NO ST297K



FABRICATION REQUIREMENTS

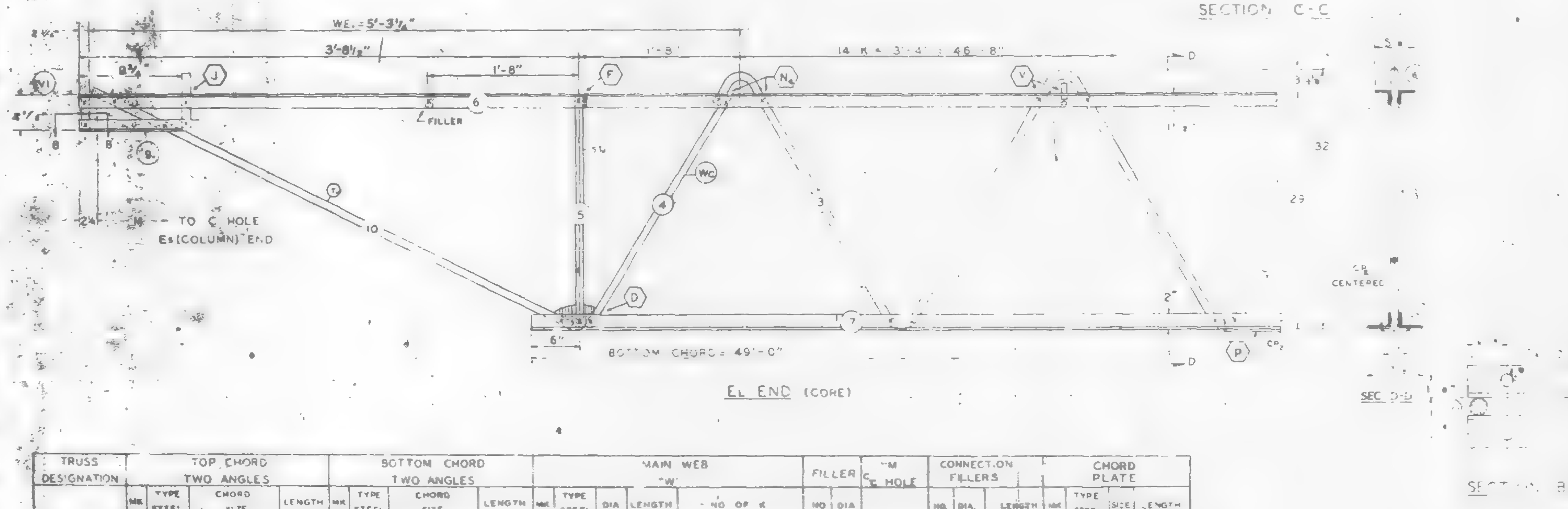
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	33"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (sum).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293 AND ST280

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-8.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



NO	DATE	REVISION

REF DRWGS

7-AB1-4	7-22-68
7-AB-52	2-15-68
7-AB-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T7M 583	6	A242	2"x1 1/2"x 31	58'-3"	7	A36	3"x2"x 33	49'-10"	3	A36	1.09	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.09	57'-9 3/4"	4	1.09"	3"	CP	A36	1/4x3	40'-0"

COLUMN END

Es	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7M 583	9	A242	2"x1 1/2"x 25	2'-3"	6'-1 1/4"	1	A36	1.09	6'-3 1/4"	2	A36	1.09	2'-4 7/8"	A36	1.09	4 3/8"	A36	1.09	2'-9 1/2"	DS	A242	.92	8'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB — LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

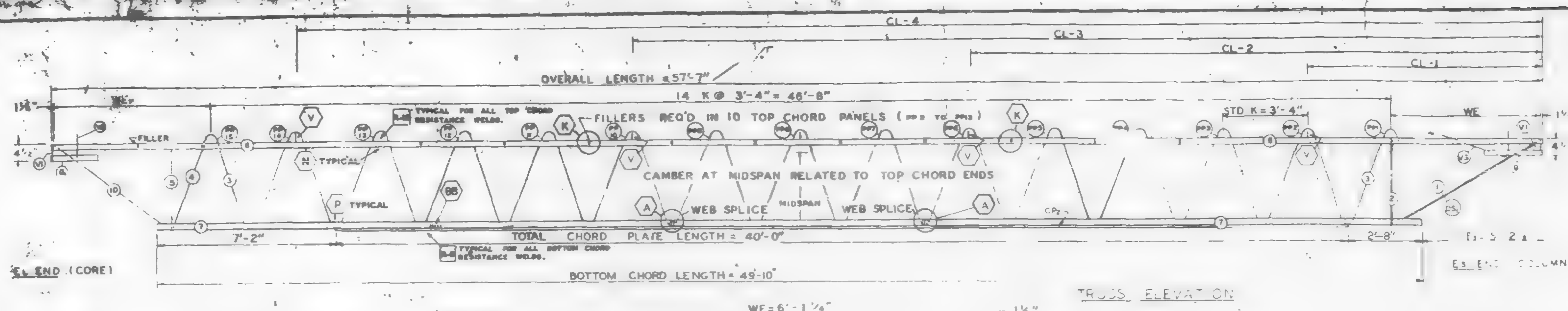
CORE END

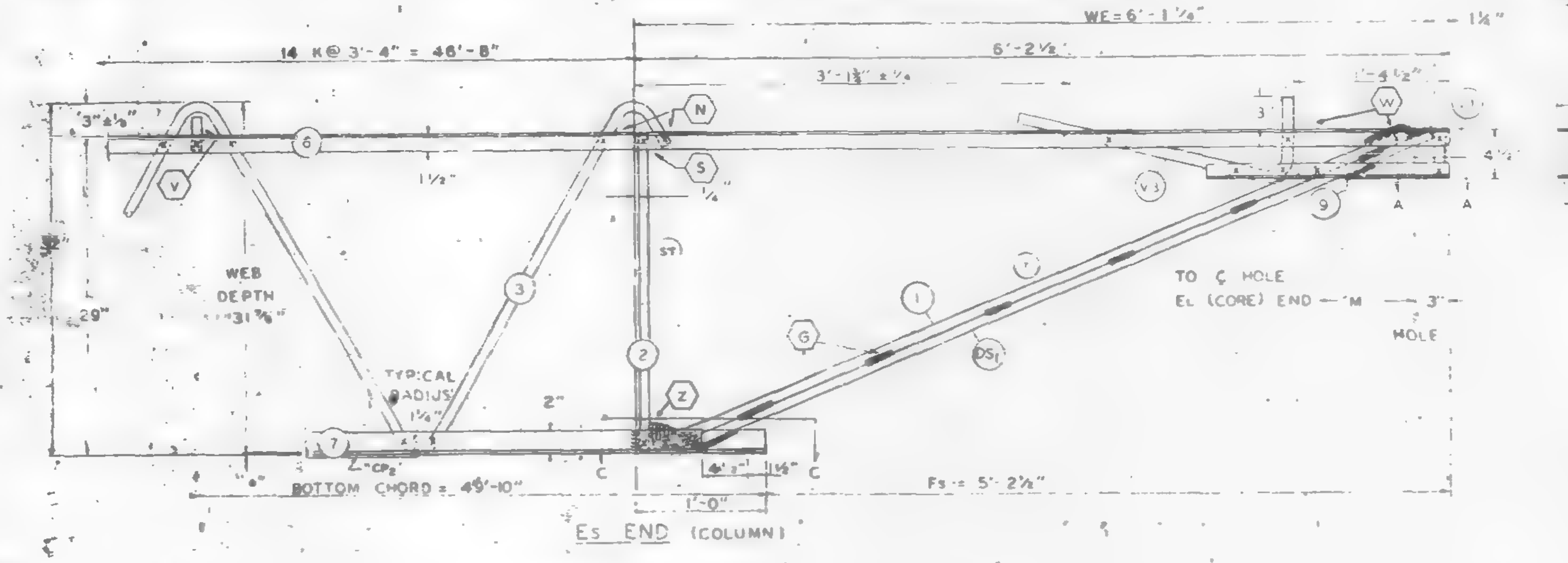
EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T7M 583	9	A242	2"x1 1/2"x 25	1'-0"	5'-3 1/4	10	A242	1.14	4'-2 3/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 1/2"	A242	1.14	7 1/2"	—	—	—	4	A242	1	1.14	2'-	-	—	—	—	—

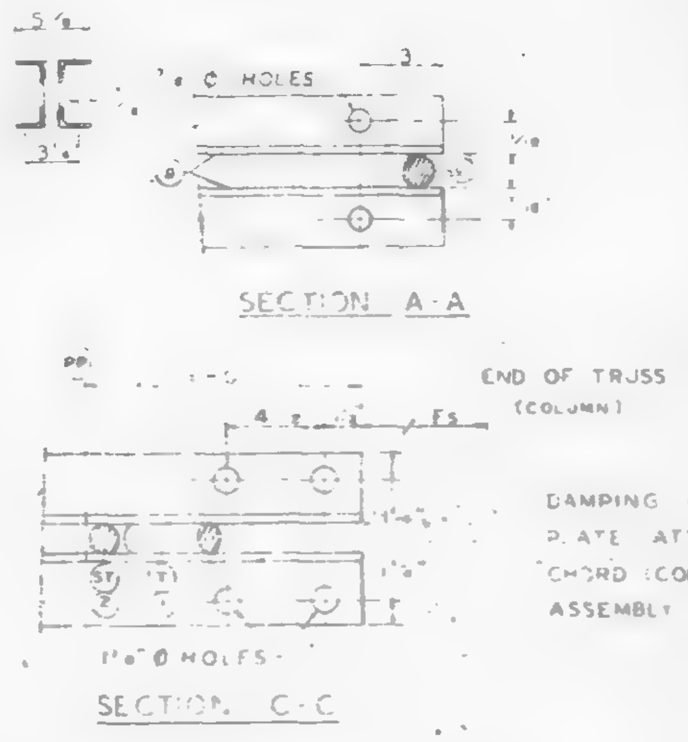
STEEL TRUSS DETAILS

FLOOR TRUSS C32T7M 58'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

7-AB1-4 7-AB1-2
James White 4/15/69
APRIL 11, 1969
IN CHARGE OF
APRIL 8, 1969
221
ST207M





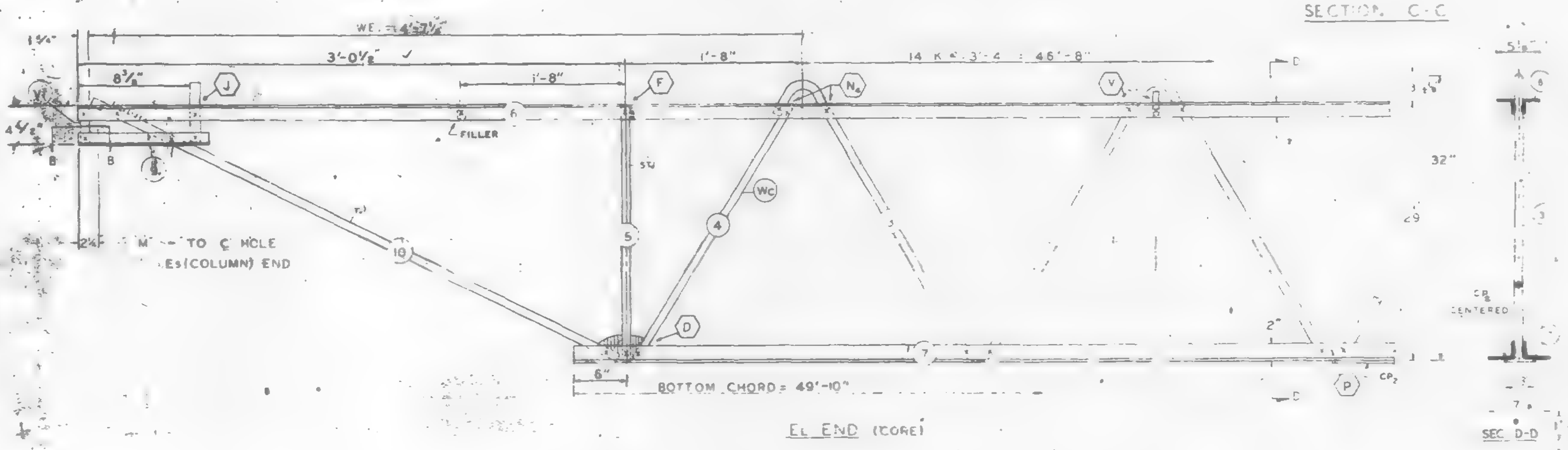


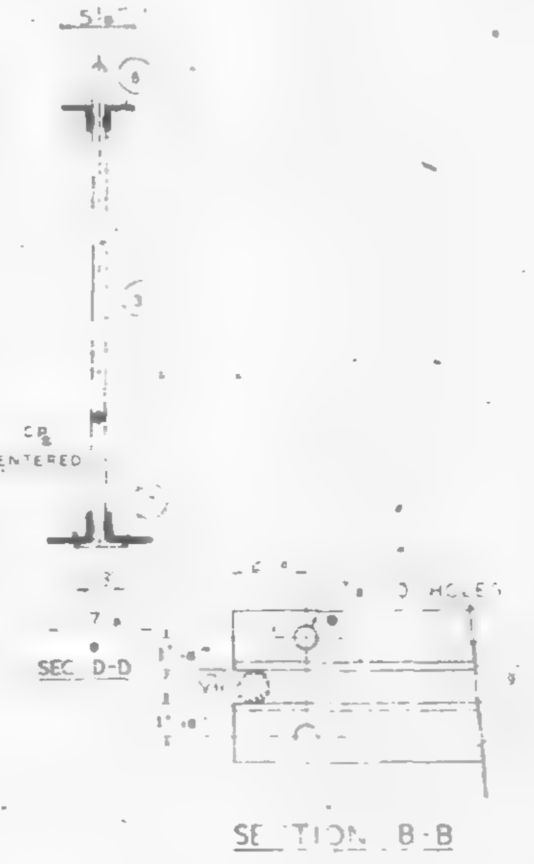
ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293
AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. R-6.

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00.

TISHMAN





FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2½"	[illegible]
DESIGN DEPTH	29"	[illegible]
PANEL "K"	3'-4"	± 1/16"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄-℄ HOLE	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32 577	6	A242	2"x1 x .31	57'-7"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.09	57'-1¾"	4	1.09"	3"	CP	A36	¼x3	40'-0"

Es END	TRUSS DESIGNAT.	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T7P 577	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅜"	A36	1.09	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10½"	36'-2⅛"	49'-6½"	5'-2½"

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					WEB "WT"				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
C32T7P 577	9	A242	2"x1½"x.25	10¼"	4'-7½"	10	A242	1.14	3'-8½"	5	A242	1.14	2'-4⅛"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-10"	-	—	—	—	—

NO.	DATE	REVISION	BY

REF DRWGS

7-AB1-4	7-22-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-31-68
7-AB4-50.5	10-20-67

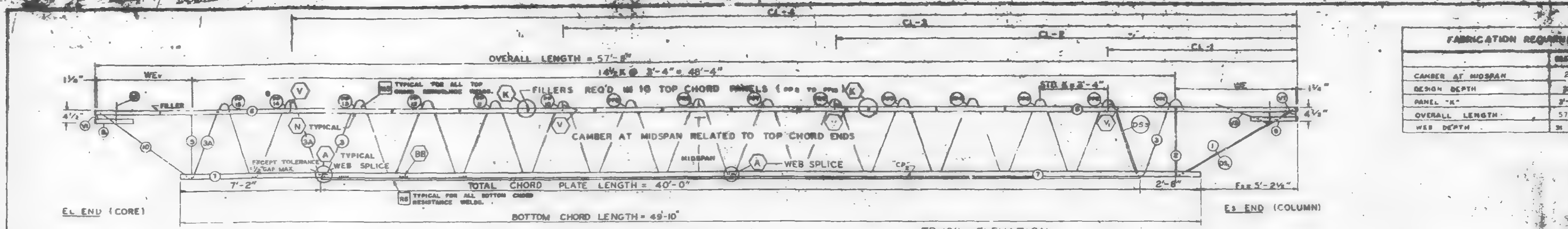
PAINT
LACLEDE ELECTROCOAT
RED NO 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

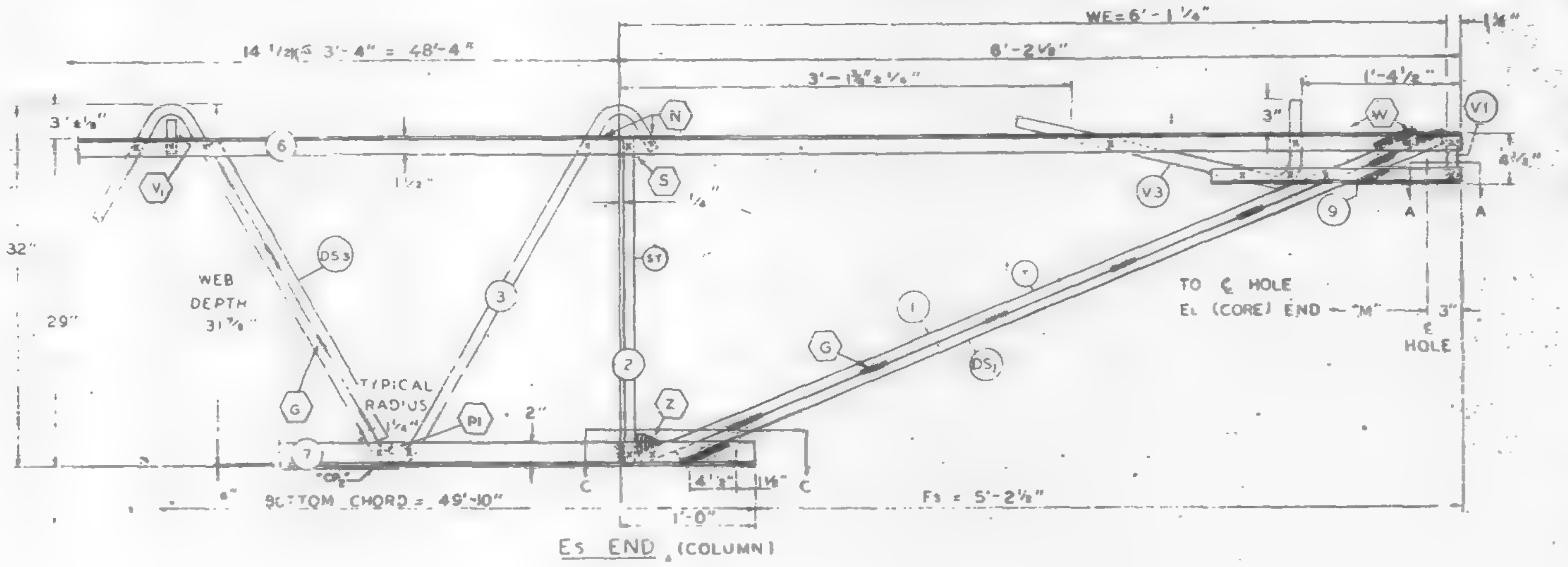
FLOOR TRUSS C32T7P 57'-7" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

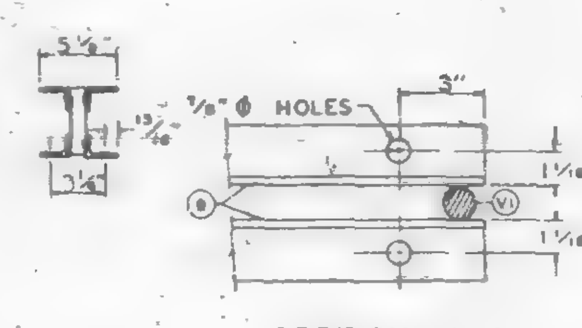
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-4 7-AB3-2	PLATE
APPROVED FOR FABRICATION — James White	DATE 4/25/69	DRAWN BY — DATE APRIL 15, 1969	
APPROVED FOR FABRICATION	DATE	CHECKED BY T.M. CHURA DATE APRIL 15, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY		FABRICATION CONTRACT WTC 221	SHEET NO ST207P



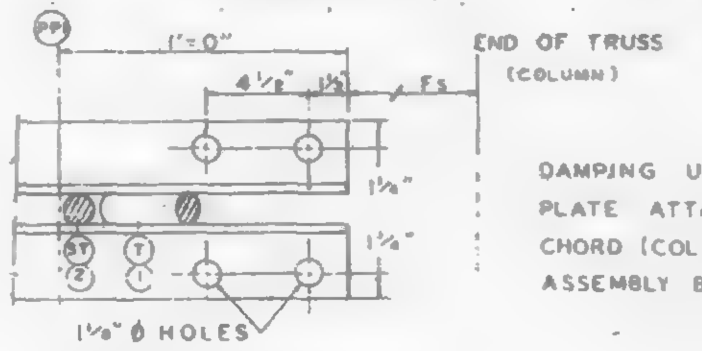
TRUSS ELEVATION



ES END (COLUMN)



SECTION A-A



SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (×).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

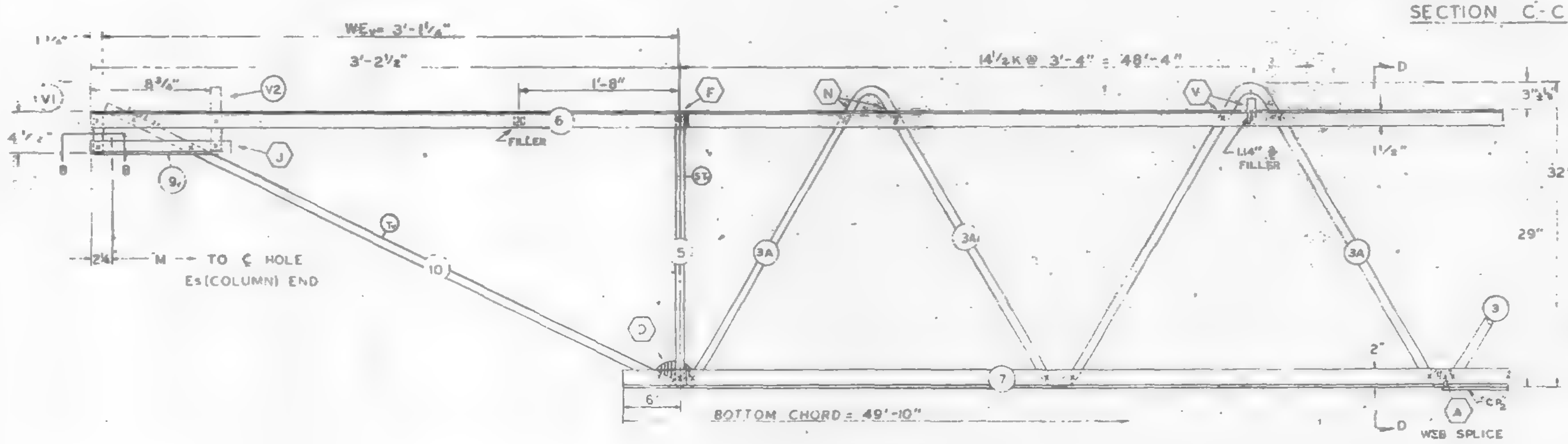
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie.. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie.. [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

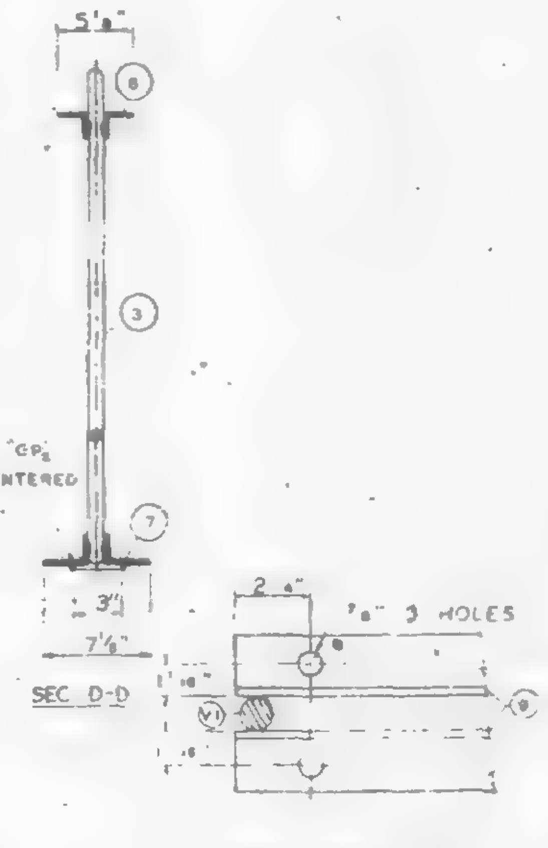
FABRICATION REQUIREMENTS	DESIGN	
CAMBER AT MIDSPAN	2"	
DESIGN DEPTH	29"	± ¼"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

VO1D

Truss length not right



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

REF DRWGS

7-AB1-5	10-15-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-3	8-1-68
7-AB3-2	1-3-68
7-AB4-30.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" C/C HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8N 579	6	A242	2"×1½"×.31	57'-9"	7	A36	3"×2"×.33	49'-10"	3 3A	A36 A242	1.09 1.14	78'-3¾" 12'-5½"	12½@ 3'-4" = 41'-8" 2 @ 3'-4" = 6'-8"	11	1.09	57'-[illegible]¾"	3 1	1.09 1.14	3" 3"	CP2	A36	¼×3	40'-0"	DS3	A242	.75	2'-6¾"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8N 579	9	A242	2"×1½"×.25	2'-3"	5'-1¼"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅝"	A36	1.09	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

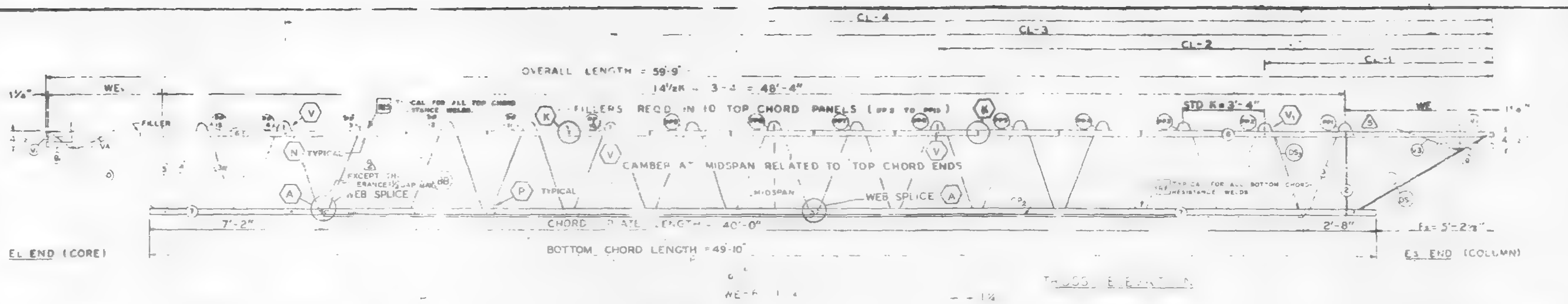
CORE END

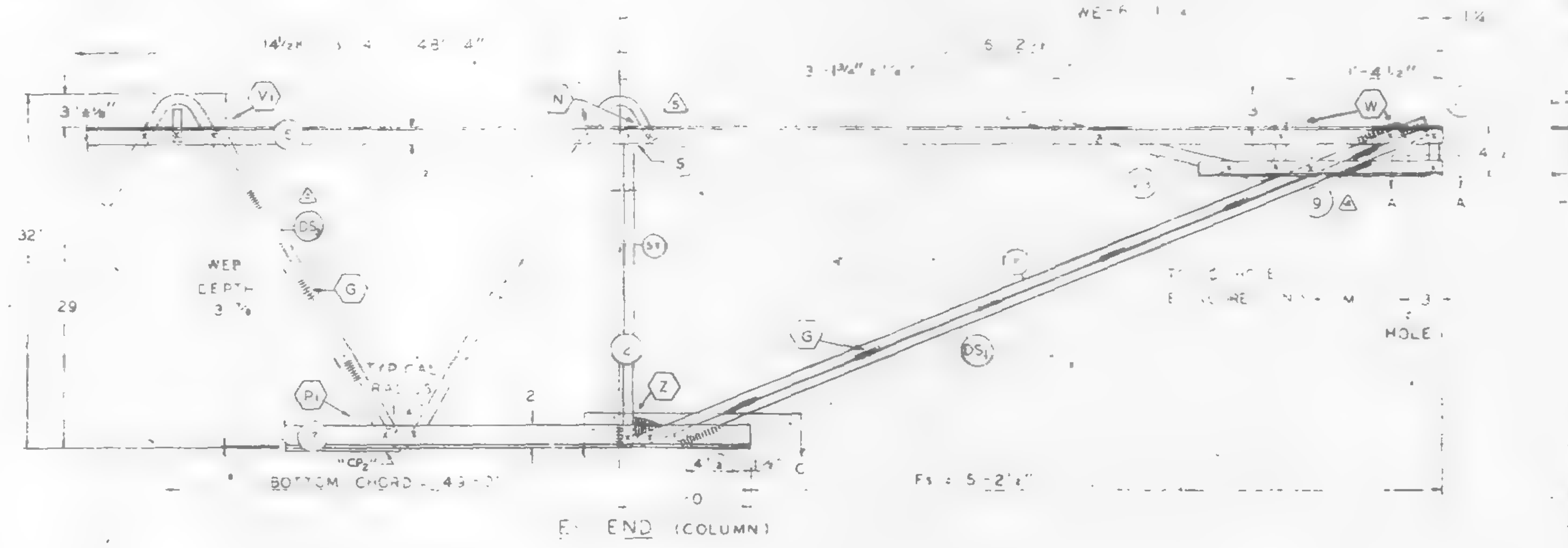
EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "Wt" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8N 579	9	A242	2"×1½"×.25	10"	3'-1¼"	10	A242	1.14	3'-10"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅞"	A242	1.14	7⅞"	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

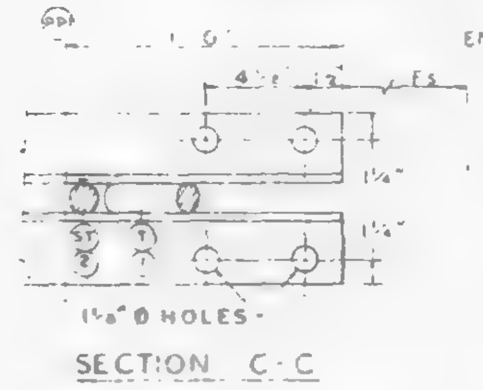
FLOOR TRUSS C32T8N 57'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR PONYA — DATE
DRAWN BY — DATE MAY 1, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE
CHECKED BY J R BAIN — DATE MAY 1, 1969
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY
FABRICATION CONT NO. WTC 221
SHEET NO.

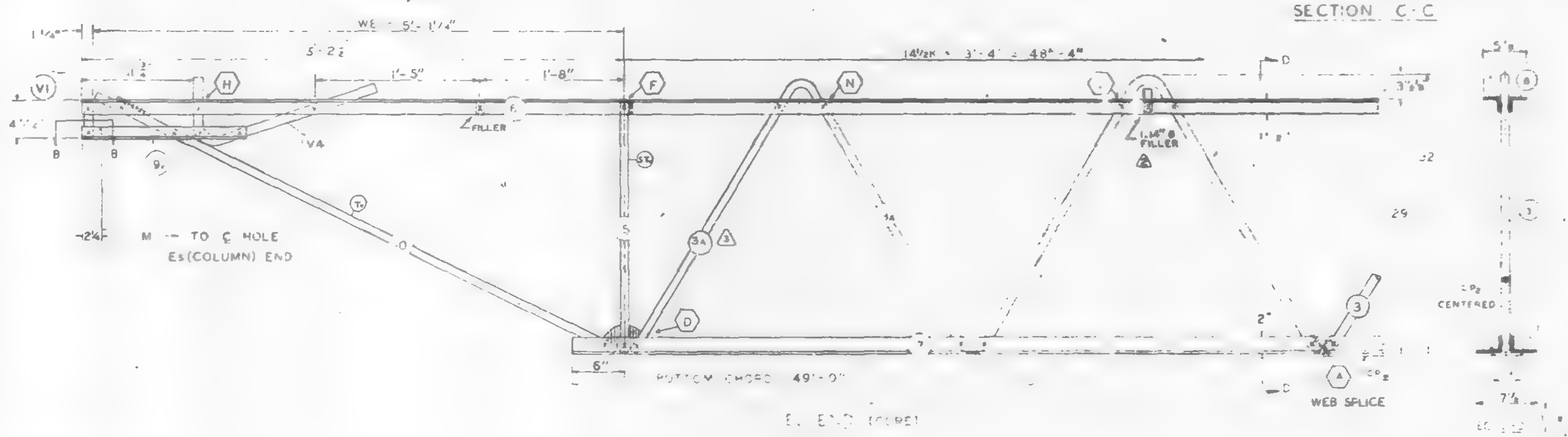




ALL PANEL POINTS RESISTANCE WELDED OR ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 292, AND ST280.
SEE SHEET ST293 FOR V1, V3 & V4 DETAILS
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R6



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



FABRICATION REQUIREMENTS	DESIGN	TOL.
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH		± 1/8"
PANEL LENGTH	3'-4"	± 1/4
OVERALL LENGTH	59'-9"	± 3/8
WEB DEPTH	31 7/8"	1/4"

NO.	DATE	REVISION	BY
5	11-19-68	AS NOTED	GDC
4	7-22-68	MK (9) LENGTH & DS, LENGTH	T.M.C.
3	7-8-68	TOLERANCE, WEB SPLICE; MAIN WEB	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

5 REF DRWGS

7-AB1-5	10-15-68
7-AB1-52	2-13-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-505	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH (5)	NO OF K	FILLER NO	DIA	"M" ℄ HOLE	CONNECTION FILLER NO.	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (4)
C32T8A 599	6	A242	2' [illegible]	59 9	7	A36	3 [illegible] 3	49'-10"	3 / 3A	A36 / A242	1.09 / 1.14	78'-3¾" / 11'-5½"	12½K @ 3'-4" = 41'-8" / 2K @ 3'-4" = 6'-8"	11	1.09	59-3¾"	3 / 1	1.09" / 1.14	[illegible]	CP2	A36	¼x3	40'-0"	DS2	A242	.75	2'-6¾"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH (4)	WE	DIAGONAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH (5)	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8A-599	9	A242	2"x1½"x.25	2'-3"	6'-[illegible]		A36	.09	6'-3⅛"	2	A36	.09	2'-4⅛"	A36	1.09	4⅛"	A36		9⅛"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2⅛"

CORE END

El END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE.	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH (5)	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8A-598	8	A242	2"x1½"x.25	1'-7"	5'-1½"	10	A242	1.14	5'-6⅛"	5	A242	1.14	2'-4⅛"	A242	1.14	4⅛"	–	–	–	A242	1.14	2'-2⅛"	–	–	–	–	–	–	–	–	–	–

STEEL TRUSS DETAILS

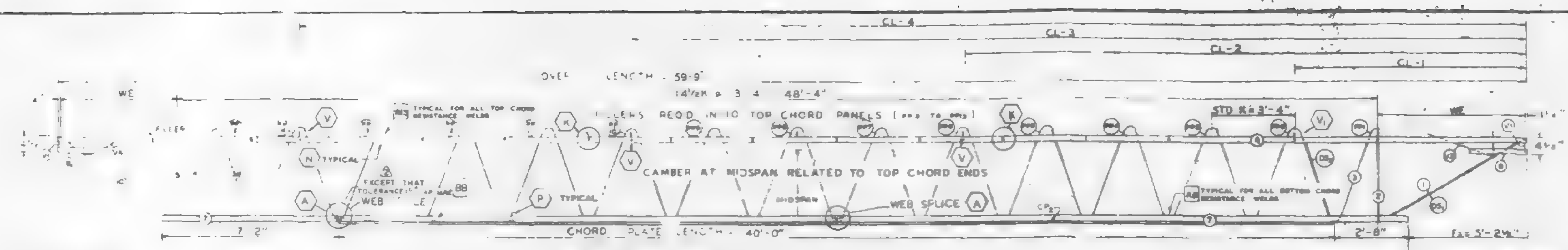
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8A 59'-9" OVERALL

WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

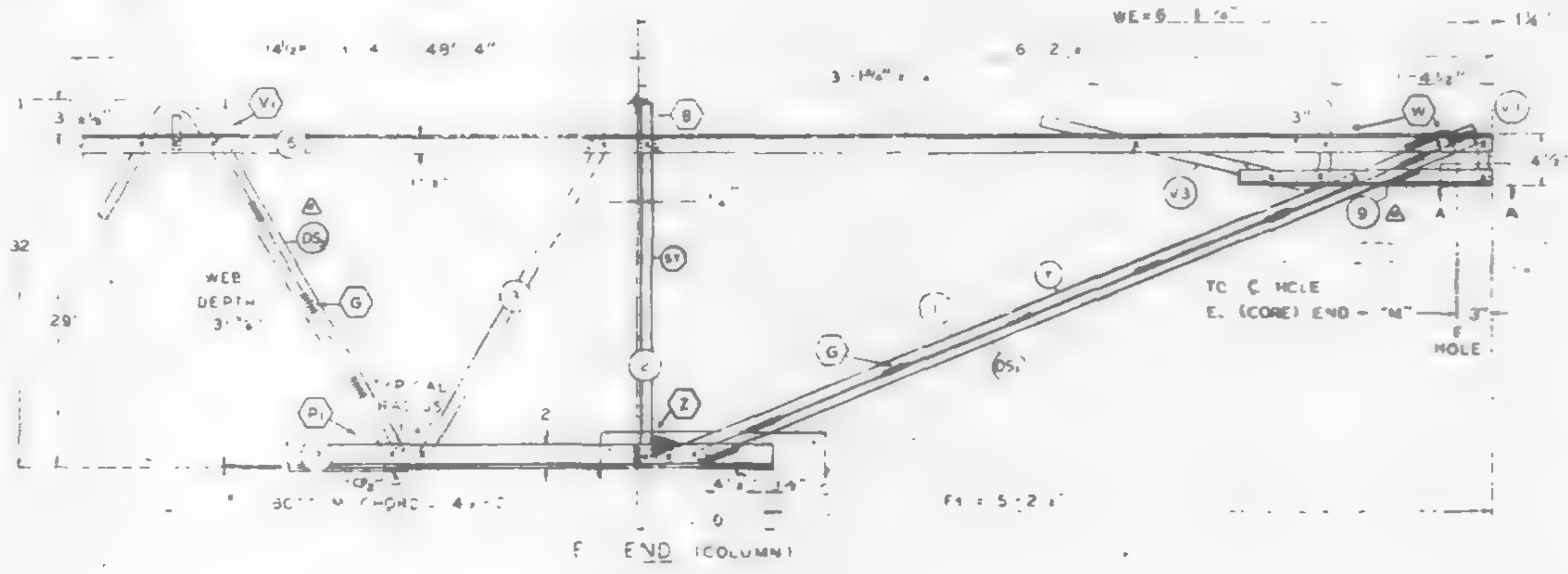
FABR DATES	DESIGN DRAWING NO 7-AB1-5 7-AB3-2	PLATE
APPROVED FOR FABRICATION DATE 12/2/68	DRAWN BY [illegible] DATE FEB. 24, 1968	
APPROVED FOR FABRICATION DATE BY	CHECKED BY JR PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD REV
DETAILED BY A C WEBER	FABRICATION CONT NO WTC 221	SHEET NO ST208A



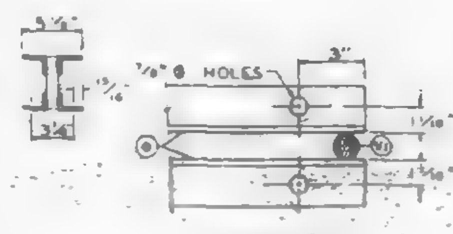
EL END (CORE)

EL END (COLUMN)

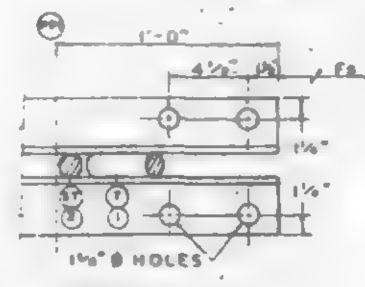
TRUSS ELEVATION



EL END (COLUMN)



SECTION A-A

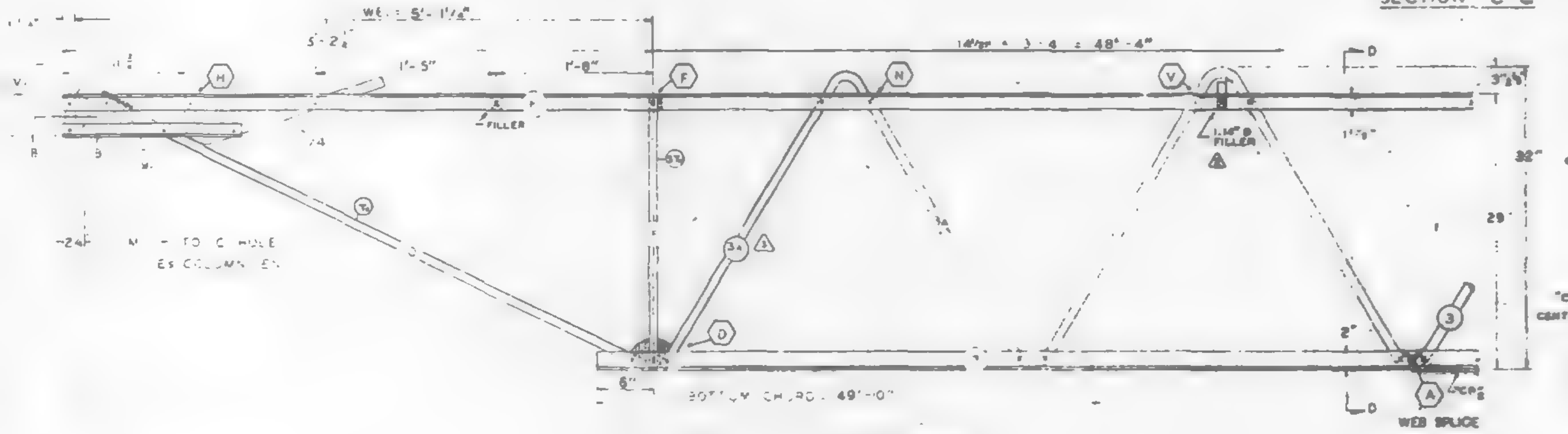


SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

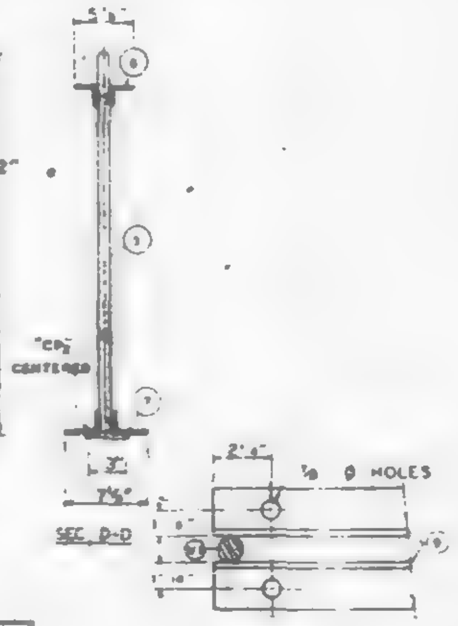
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



EL END (CORE)

SEC. D-D



SECTION B-B

NO.	DATE	REVISION	BY
4	7-22-68	MK (9) LENGTH & DS LENGTH	M.C.
3	7-8-68	TOLERANCE, WEB SPLICE, MAIN WEB	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-AB1-5	4-15-68
7-AB-52	2-15-68
7-AB-53	1-3-68
7-AB4-50 & 50.2	10-20-67
7-AB1-2	1-3-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"HB" CL HOLE	CONNECTION FILLER			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO.	DIA	WIDTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8A 599	6	A242	[illegible]	59'-9"	7	A36	3"x2 x 33	49'-10"	3 / 3A	A36 / A242	1.09 / 1.14	77'-10"? / 12'-5½"	12½x @ 3'-4" = 41'-8" / 2K @ 3'-4" = 6'-8"	11	1.09	59'-3½"	3	[illegible]	[illegible]	CR	A36	½x3	40'-0"	DS	A242	.75	2'-8¾"

COLUMN END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "ST" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T8A-599	9	A242	2"x1½"x.25	2'-3"	5'-1¾"		A36	1.09	6'-3¼"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅞"	A36	1.09	2'-9⅛"	DS	A242	.92	8'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fa
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

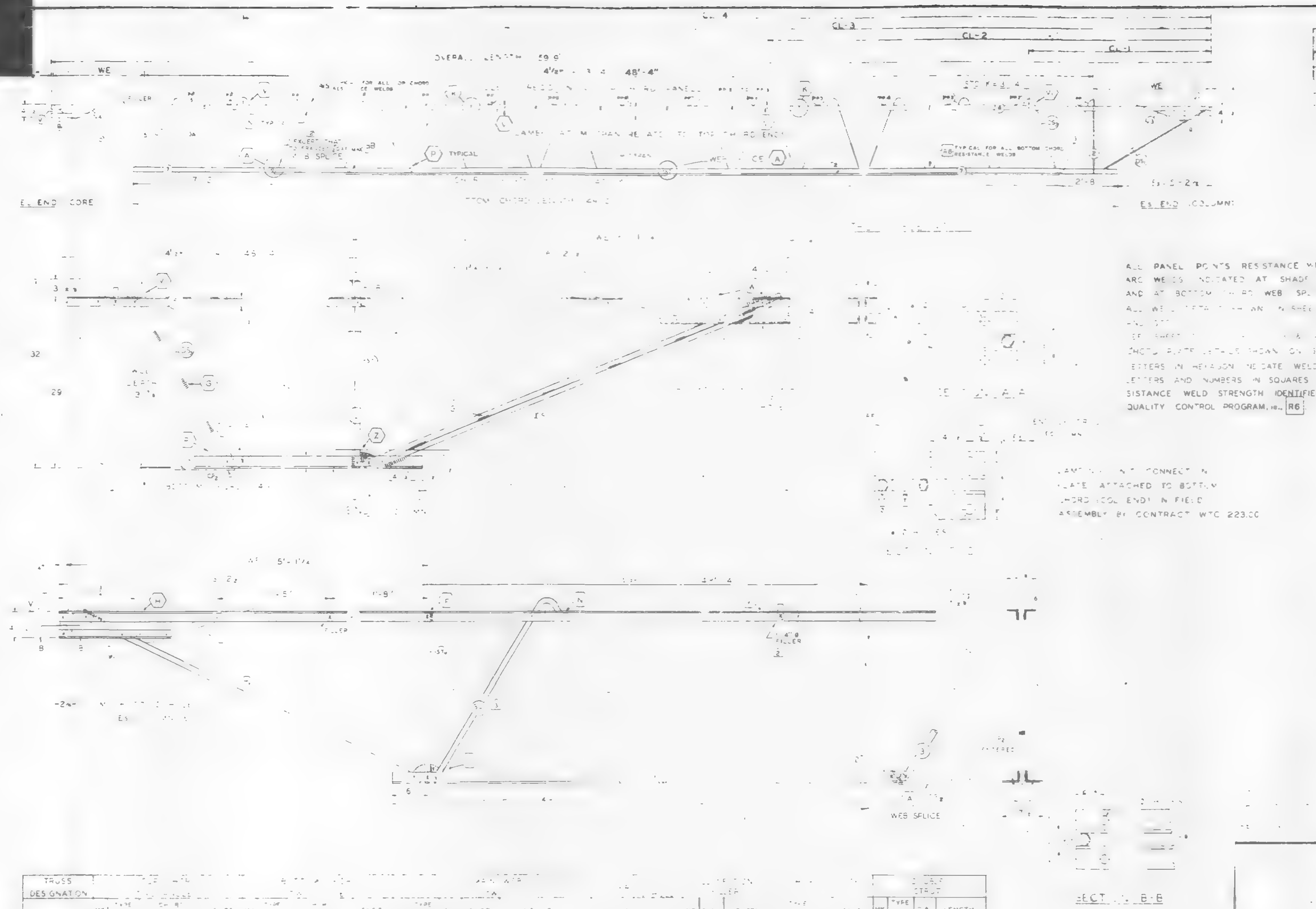
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "ST" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					WEB "Wt"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T8A 599	9	A242	2"x1½"x.25	1'-7"	5'-1¾"	10	A242	1.14	5'-6"	5	A242	1.14	2'-4⅝"	A242	1.14	[illegible]	—	—	—	A 242	1.14	2'-2"	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8A 59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-5 7-AB1-2 PLATE
APPROVED FOR FABRICATION BY [signature] FOR PONYA DATE 8/2/68
DRAWN BY [initials] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. PAUL DATE FEB 26, 1968
IN CHARGE OF PROD. DEV.
DETAILS BY A.C. WEBER
FABRICATION CONT. NO WTC 221
SHEET NO ST208A



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	[illegible]	± 3/8"
DESIGN DEPTH		[illegible]
PANEL LENGTH	3'-4	[illegible]
OVERALL LENGTH	59'-9	[illegible] 8"
WEB LENGTH	3'-7 8	[illegible] 1/4

ALL PANEL POINTS RESISTANCE WELDED. ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ▬
ALL WELD DETAILS SHOWN ON SHEETS ST [illegible] ST 29[illegible], ST 292.
[illegible]
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R6.

[illegible] CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00

NO.	DATE	REVISION	BY
3	7-8-68	TOLERANCE, WEB SPLICE, MAIN WEB	T.M.C
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF. DRAWGS

7-AB-5	4-5-68
7-AB1-52	2-5-68
7-AB1-53	3-58
7-AB4-50 & 50.2	10-20-67
7-AB3-2	3-68
AB4 TO 5	0-20-67

TRUSS DESIGNATION	[illegible]											DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8A-599	6	A242	[illegible]	59'-9	7	A36	49'-7"	3 / 3A	A36 / A242	1.09 / 1.14	[illegible]	DS	A242	[illegible]	2'-8½"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLE MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST STRUT MK	TYPE STEEL	DIA	LENGTH	STIFFENER TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
		C32T8A-599	9	A242	2"x1½"x.25	2'-0"	6'-[illegible]		A36	1.09	6'-3¾"	2	A36	1.09	2'-7⅞	A36	1.09	4⅞"	A36	1.09	[illegible] 9"	DS	A242	.92	6'-3¾"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Es
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "V" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WY" MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T8A-599	9	A242	2"x1½"x.25	1'-7"	5'-1¼	5	A242	.4	5'-6½	5	A242	[illegible]	2'-4¾"	A242	.4	4	-	-	-	A242	.14	2'-2½	-	—	—	—	—	-	—	—	—	—

STEEL TRUSS DETAILS

THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32TRA 59'-9" OVERALL

WORLD TRADE CENTER TOWER A-B

FABRICATED BY LACLEDE STEEL COMPANY

DESIGN DRAWING NO. 7-AB1-5 7-AB3-2 PLATE

APPROVED FOR FABRICATION BY: GW DATE 7/12/68

DRAWN BY: [illegible] DATE FEB 24, 1968

CHECKED BY: [illegible] DATE FEB 24, 1968

IN CHARGE OF PROD. DEV.

FABRICATION CON. NO. WTC 221

SHEET NO. ST208A

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	4"	± 1/4"
OVERALL LENGTH	59'-9"	[illegible]
WEB DEPTH	31 7/8"	[illegible]

ALL PANEL POINTS RESISTANCE WELDED.
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST28[illegible]
SEE SHEET ST295 [illegible] & V4 DETAILS
CHORD PLATE DETAILS [illegible] ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223[illegible]

NO.	DATE	REVISION	BY
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF. DRAWGS.
7-AB1-5 [illegible]
7-AB1-52 2-15-68
7-AB1-53 [illegible]-3-68
7-AB4-50 & 50.2 10-20-67
7-AB1-2 [illegible] 68
7-AB4-50.5 [illegible]-20-67

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Es
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

COLUMN END

Es END	TRUSS DESIGNATION	MK	TYPE STEEL	CHORD SIZE	LENGTH	WE.	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
	C32T8A-599	9	A242	[illegible] .25	2'-0"	6[illegible]	[illegible]	[illegible]	[illegible]	6'-3 1/8"	2	A36	.09	2'-7"	A36	.09	4"	A36	.09	[illegible]	42	.22	6'-3 1/8"

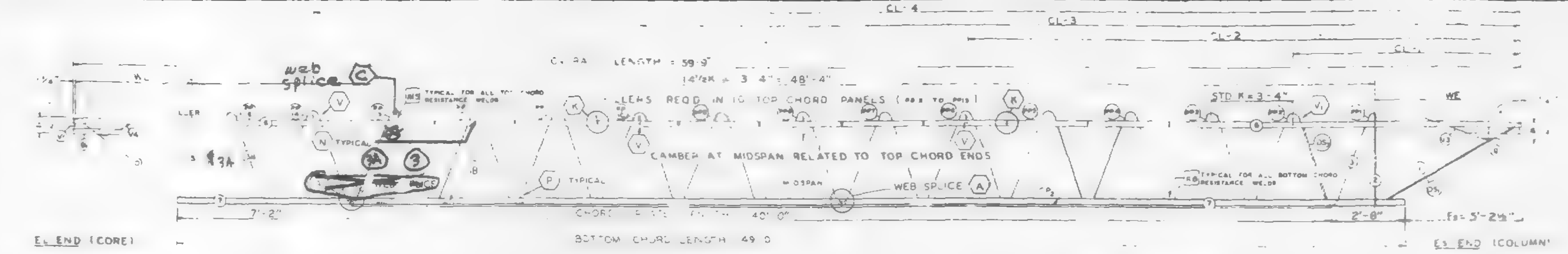
CORE END

Ec END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE.	DIAGONAL T. STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST. STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T8A-599	9	A242	2"x1 1/2"x.25	1'-7"	5'-1 1/4"	3	A242	.14	5'-6 1/2"	5	A242	.14	2'-4 3/4"	A242	.14	4	–	–	–	A242	.14	2'-2 1/2"	–	–	–	–	–	–	–	–	–	–

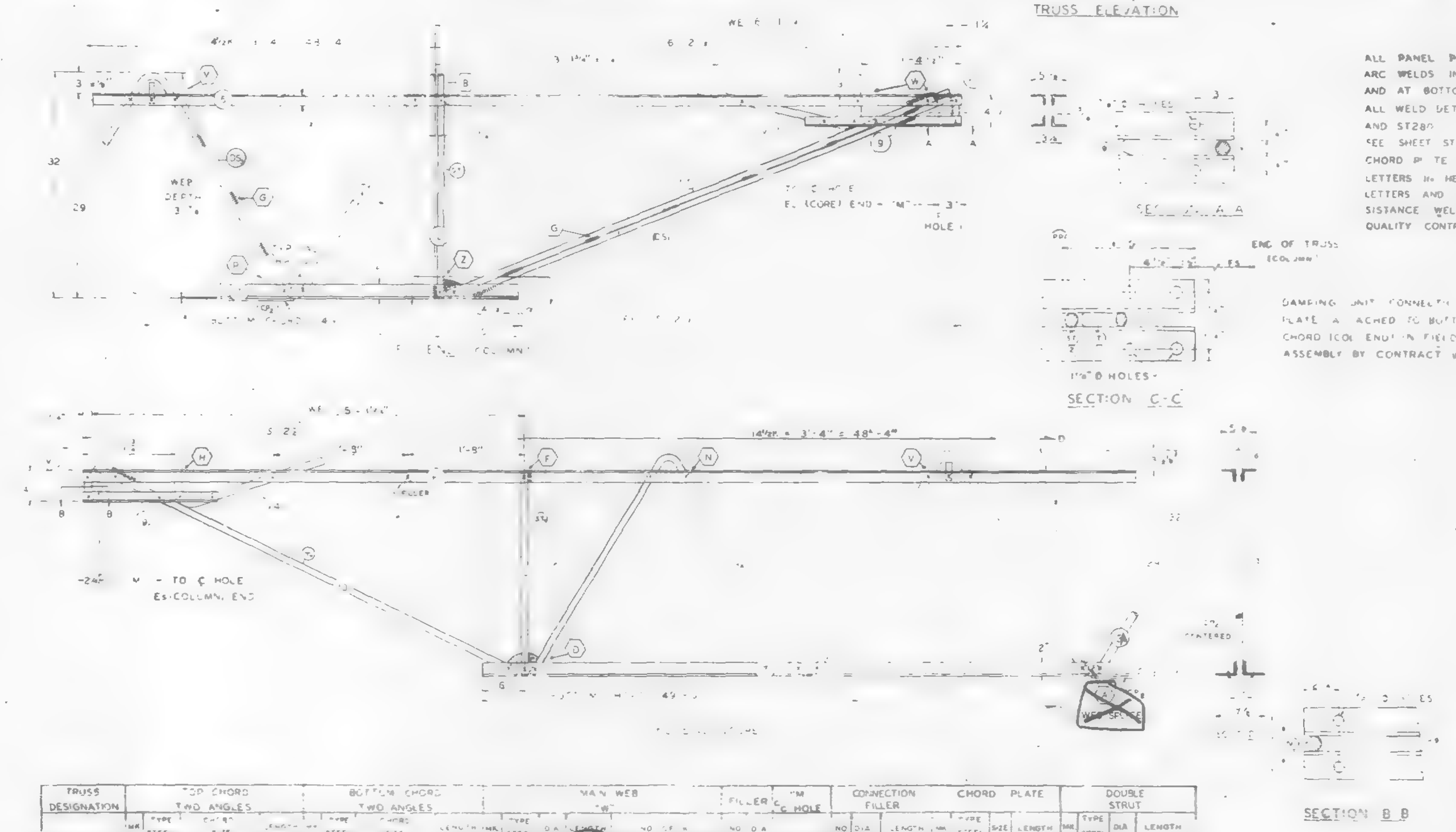
TRUSS DETAILS
59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATED BY: LACLEDE STEEL COMPANY
[illegible] ILLINOIS

APPROVED FOR FABRICATION FOR CONTRACTOR BY: *JW* DATE: 7/5/68	DESIGN DRAWING NO. 7-AB1-5 7-AB3-2 PLATE	DRAWN BY [signature] DATE FEB. 24, 1968
APPROVED FOR FABRICATION FOR FABRICATOR BY: DATE:	CHECKED BY JR PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD. DEV.
[illegible] BY: J.C. WEBER	FABRICATION CONT. NO. WTC 221	SHEET NO. ST208A



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "A"	3'-4"	± 1/4
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	[illegible]	± 1/4"



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280
SEE SHEET ST255 [illegible] & 74 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF [illegible]	FILLER NO.	DIA	"M" ℄ HOLE	CONNECTION FILLER NO.	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8A-599	6	A242	[illegible]	59'-9"	7	A35	3 x 2 x 3	49'-10"	3 / 3A	A36 / A242	1.09 / 1.14	[illegible]	12, 2K, 2, 3, 4 [illegible]	11	1.09	59 3¾	3	[illegible] / 1.14	3" / 3"	CP2	A36	¼x3	40'-0"	DS	A242	.75	2'-8½"

COLUMN END

El END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T8A-599	9	A242	2"x1½"x.25	2'-0"	6'-1[illegible]"	1	A36	1.09	6'-3[illegible]"	2	A36	1.09	2'-7[illegible]"	A36	1.09	4[illegible]"	A36	1.09	2'-9[illegible]"	DS	A242	.92	6'-3[illegible]"

CHECK DIMENSION FOR TRUSS FAB — LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10[illegible]"	36'-2⅛"	49'-6½"	5'-2½"

CORE END

El END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T8A-599	9	A242	2"x1½"x.25	1'-7"	5'-1½"	0	A242	[illegible]4	5'-6[illegible]"	5	A242	[illegible]4	2'-4¾"	A242	1.14	4[illegible]"	—	—	—	A242	1.14	2'-2[illegible]"	—	—	—	—	—	—	—	—	—	—

NO	DATE	REVISION	BY
A	8-22-68	GENERAL	TMC

REF. DRAWGS
7-AB-5 — 4-3-68
7-AB-52 — 2-5-68
7-AB-53 — 3-68
7-AB4-50 & 50.2 — 10-20-67
7-AB1-2 — 3-68
7-AB4-50.5 — 10-20-67

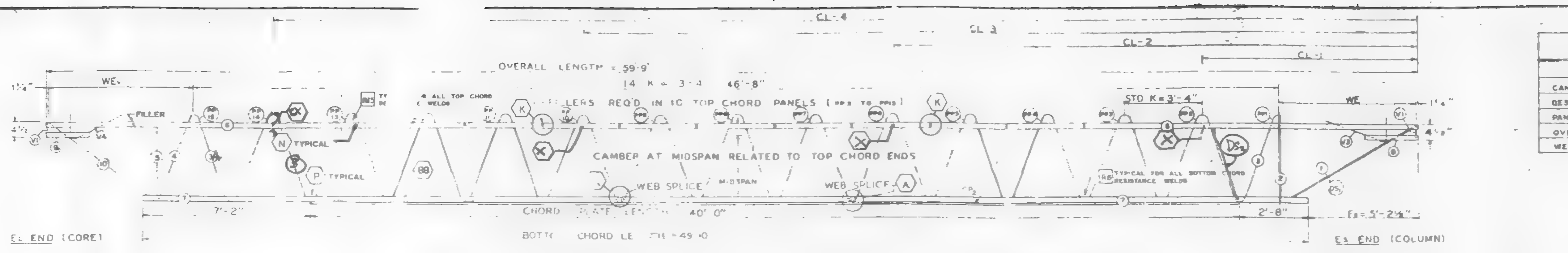
6/25/68 WAB

LACLEDE ELECTROGRAPH
[illegible] NO. 10C[illegible]

STEEL TRUSS DETAILS
WORLD TRADE CENTER A/C
FOR
THE PORT OF NEW YORK AUTHORITY

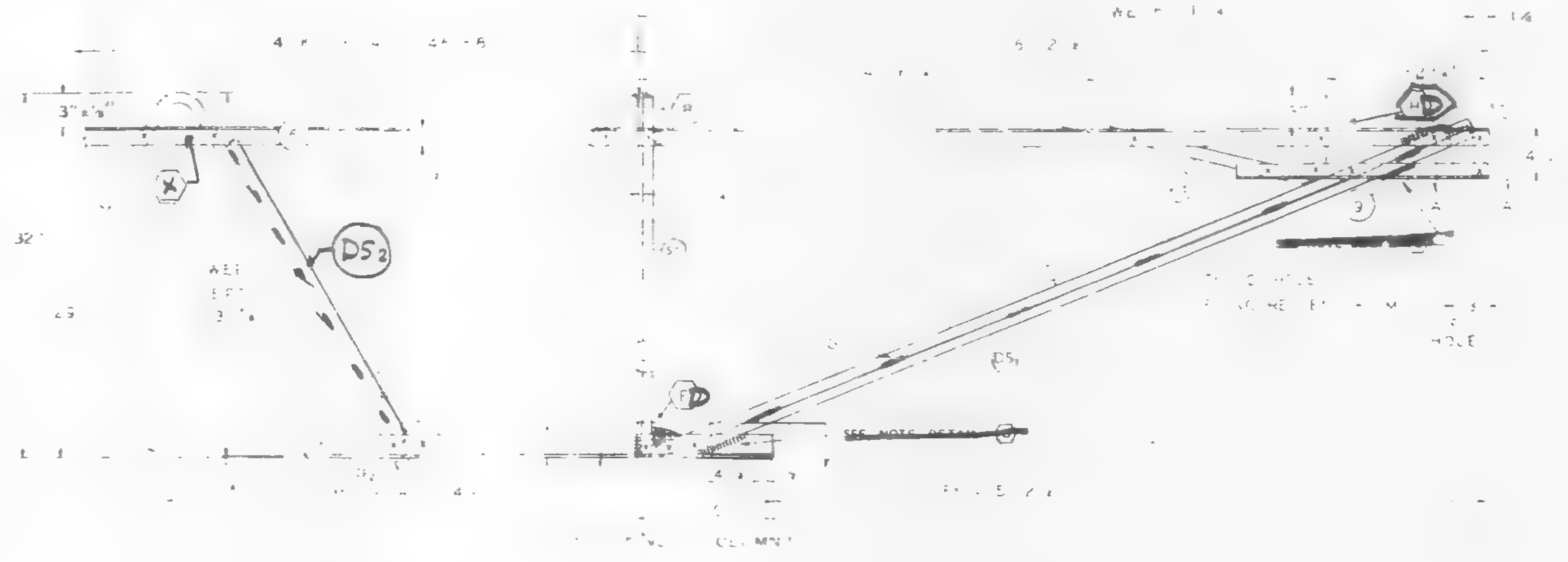
FLOOR TRUSS C32T8A 59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE [illegible] COMPANY
DESIGN DRAWING NO. 7-AB1-5 7-AB1-2 PLATE 1
APPROVED FOR FABRICATION FOR PONYA | DATE | DRAWN BY [illegible] | DATE FEB 24, 1968
APPROVED FOR FABRICATION | DATE | CHECKED BY J.R. PAUL | DATE FEB 24, 1968 | IN CHARGE OF PROD DEV
FABRICATION CONT. NO. 221 | SHEET NO. ST208A

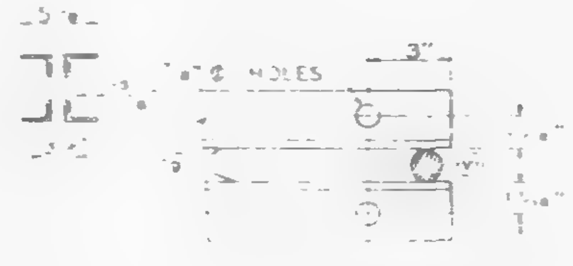


TRUSS ELEVATION

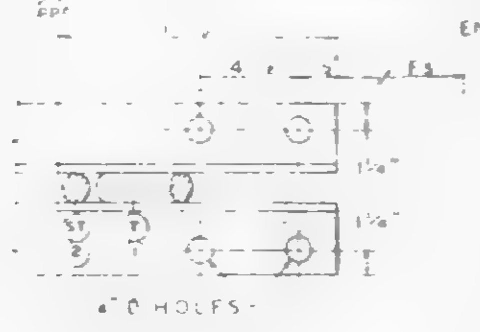
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	20"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± [illegible]
WEB DEPTH	31 7/8"	± 1/4"



ALL PANEL POINTS RESISTANCE WELDED.
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].



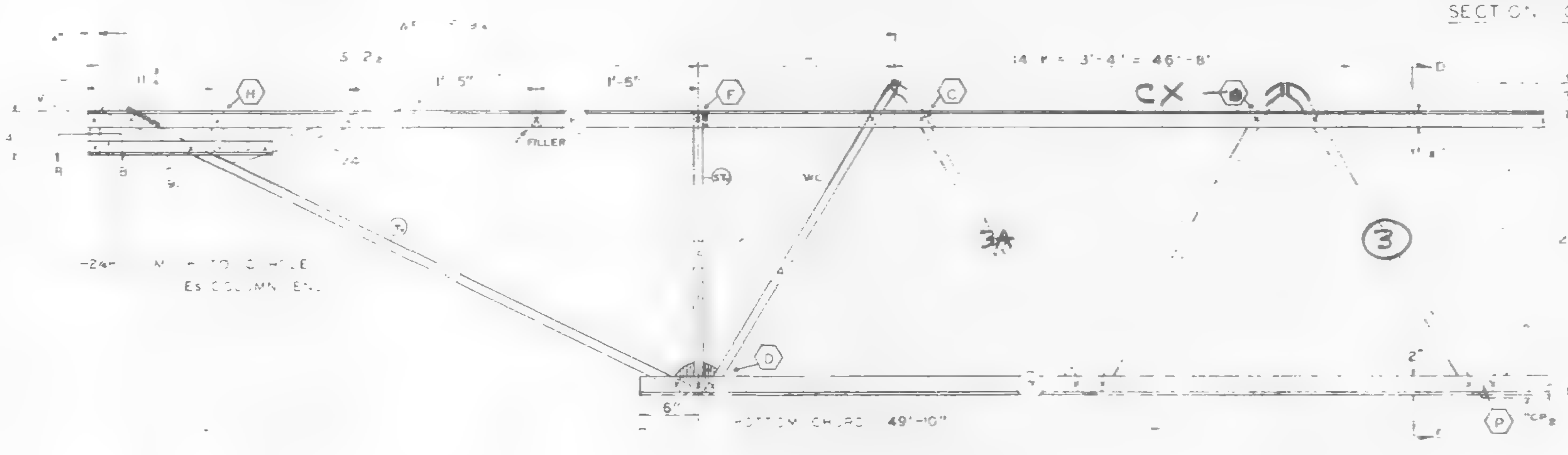
SECTION A-A



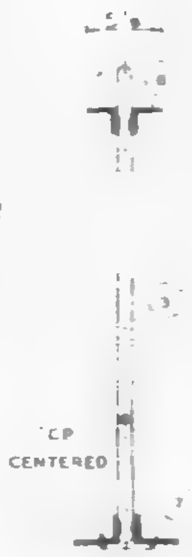
SECTION C-C

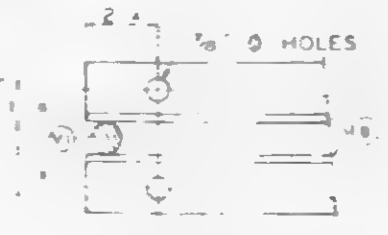
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) FIELD ASSEMBLY BY CONTRACT WTC 223.00.

6/13/68



EL END (CORE)





SECTION B-B

4-15-68

REF DRWGS

7-AB1-5	2-15-68
7-AB1-52	2-15-68
7-AB1-53	1-3-68
7-AB4-50 & 50 2	10-20-67
7-AB3-2	1-3-68
7-AB4-50 5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER C-C HOLE NO	DIA		TRUSS DATA	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T8A 599	6	A242	2" x [illegible]	59-9	7	A36	3 x 2 x 33	49'-10"	3	A36	1.09	87'-2 1/2"	14 @ 3'-4" = 46'-8"	11	1.09	59 3 3/4		CP2	A36	[illegible]	4 [illegible]

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8A-599	9	A242	2"x1 1/2"x .25	1'-10"	6'-[illegible]	[illegible]	A36	1.09	6'-3 1/2"	2	A36	1.09	2'-7 7/8"	A36	1.09	4 [illegible]	A36	1.09 2	9 [illegible]	DS1	A242	.75	6'-3"
																				DS1	A242	.75	

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Es
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/4"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB MK			DIA
C32T8A-598	9	A242	2"x1 1/2"x .25	1 [illegible]	5-9 [illegible]	10	A242	1.14	5'-6 1/2"	5	A242	1.14	2'-4 [illegible]	A242	1.14	4 [illegible]				A242	1.14	[illegible]	4	A242	1	1.14	3'-0 1/2"	—	—	—	—	—	3A	A242		1.14

STEEL TRUSS DETAILS FOR WORLD TRADE CENTER FOR THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8A 59'-9" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING No 7-AB1-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR PONYA — DATE	DRAWN BY [illegible] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY JR PAUL DATE FEB. 24, 1968 — IN CHARGE OF PROJECT
DETAILED BY A C WEBER	FABRICATION CONT No WTC 221 — ST208A

OVERALL LENGTH = 59'-8½"

14½K @ 3'-4" = 48'-4"

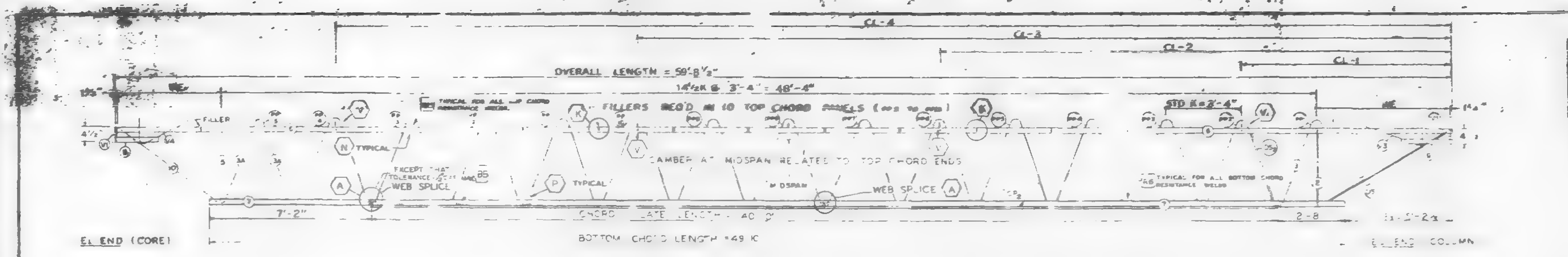
FILLERS REQ'D IN 10 TOP CHORD PANELS

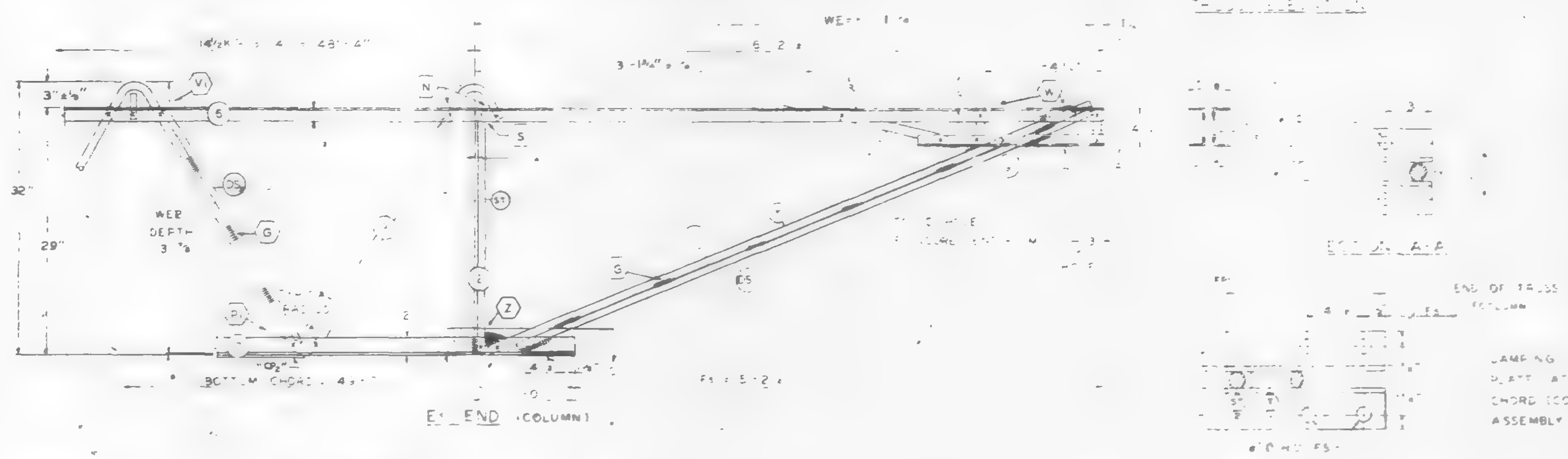
CAMBER AT MIDSPAN RELATED TO TOP CHORD ENDS

E₁ END (CORE)

BOTTOM CHORD LENGTH 49'-10"

E₁ END COLUMN





ALL PANEL POINTS RESISTANCE WELDED & ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.

ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST251.

SEE SHEET ST29[illegible] FOR V1, V3, & V4 DETAILS.

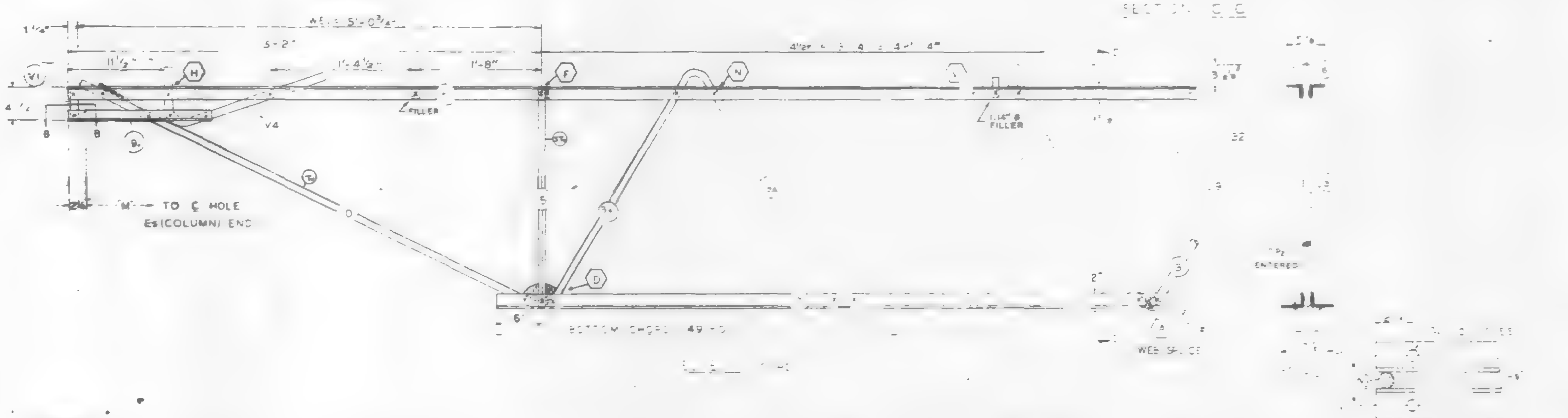
CHORD PLATE DETAILS SHOWN ON SHEET ST280.

LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A).

LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00

E₁ END (COLUMN)



SECTION B-B

NO	DATE	REVISION

REF DRWGS

7-AB1-5	10-15-68
7-AB-53	2-15-68
7-AB1-55	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-505	10-20-67

ARLEDE ELECTRODE

REG NO 1009

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER & HOLE			CONNECTION FILLER			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32TBB-5985	6	A242	2 x [illegible]	59'-8½"	[illegible]	A35	3 x 2 x 3	49'-[illegible]	3 / 3A	A36 / A242	.09 / 4	78' 3¾"	12½K @ 3'-4" = 4'-8" / 2K @ 3'-4" = [illegible]	1	.09	59'-3[illegible]	3	1.09" / .14	3"	CP2	A36	4x3	40'-[illegible]	DS1	A242	[illegible]	2'-6¼"

COLUMN END

E₁ END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32TBB-5985	9	A242	2"x1½"x.25	2'-3"	6'-1[illegible]		A36	1.09	6'-3⅛"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅝"	A36		2'-9¼"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	F₁
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2⅛"

CORE END

E₁ END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32TBB-5965	8	A242	2"x1½"x.25	1'-6"	5'-0¾"	10	A242	1.14	5'-6⅛"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	–	–	–	A242	1.14	2'-2½"	–	–	–	–	–	–	–	–	–	–

STEEL TRUSS DETAILS

FOR

WORLD TRADE CENTER N.Y.C.

FOR

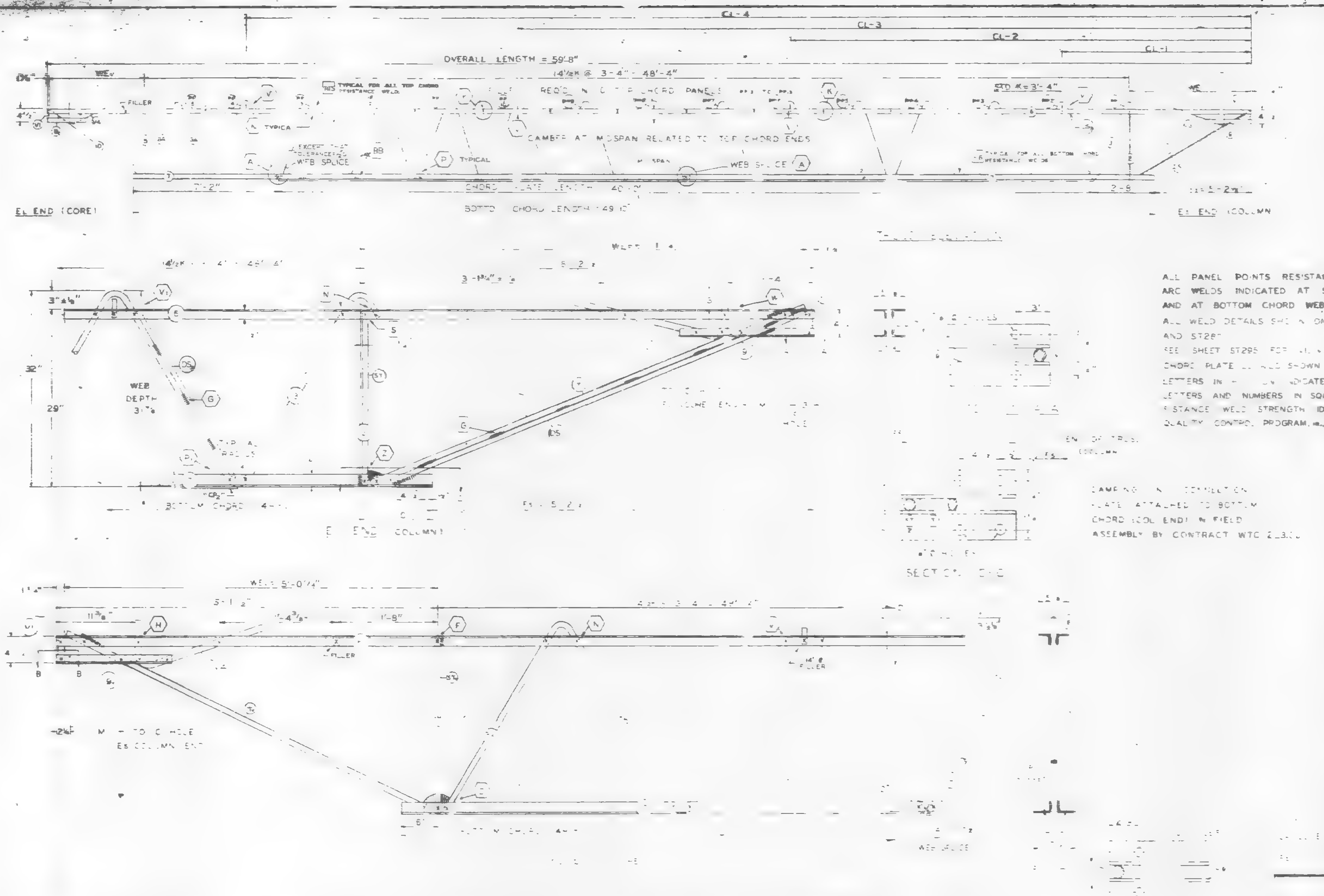
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32TBB 59'-8½" OVERALL

WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-5 7-AB[illegible]	
APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A. DATE 2/28/69	DRAWN BY [signature] DATE FEB. 10, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE FEB. 11, 1969	IN CHARGE OF PROD. REV.
DETAILED BY [illegible]	FABRICATION CONT NO. WTC 221	SHEET ST208B



FABRICATION REQUIREMENTS

CAMBER AT MIDSPAN	2"	[illegible]
DESIGN DEPTH		[illegible] 1/4"
PANEL	3'-4	[illegible] 1/4
OVERALL LENGTH	59' 9"	[illegible]
WEB DEPTH	3 7/8"	1/4"

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 292, AND ST287
SEE SHEET ST295 FOR V1, V3, & V4 DETAILS.
CHORD PLATE [illegible] SHOWN ON SHEET ST280.
LETTERS IN [illegible] INDICATE WELD DETAIL, i.e., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R6.

DAMPING [illegible] CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 2[illegible]

NO.	DATE	REVISION	BY

REF. DRWGS

7-AB-2	10-15-88
7-AB-52	2-15-88
7-AB-53	7-22-88
7-AB4-50	8-1-88
7-AB-2	[illegible]-3-88
7-AB4-50.5	10-20-87

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB					
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	[illegible]	[illegible]
C32T8C-598	6	A242	[illegible]	59'-6"	[illegible]	A36	[illegible]	49'-[illegible]	[illegible]	A242	.109	[illegible]	[illegible]	[illegible]

COLUMN END

EL END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL ST STRUT				VERTICAL ST STRUT				END STIFFENER					DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	[illegible]	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8C-598	9	A242	2"x1½"x.25	2'-3"	6'-[illegible]		A36	.09	6'-3 [illegible]"	2	A36	.109	2'-4⅝"	A36	.109	4⅝"	A36	[illegible]	DS	A242	.32	6'-3 [illegible]"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

	CL-2	CL-3	CL-4	Es
9'-6"	22'-10"	35'-2"	45'-6"	[illegible]

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL T STRUT				VERTICAL ST STRUT				END STIFFENER MK V1			MK V2			MK V4			WEB "WC"					WEB "WT"				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8C-598	9	A242	2"x1½"x.25	1'-6"	5'-0¾"	10	A242	.4[illegible]	5'-5 [illegible]"	5	A242	.4[illegible]	2'-4⅞"	A242	.14	4 [illegible]"	—	—	—	A242	.14	2'-2¼"	—	—	—	—	—	—	—	—	—	—

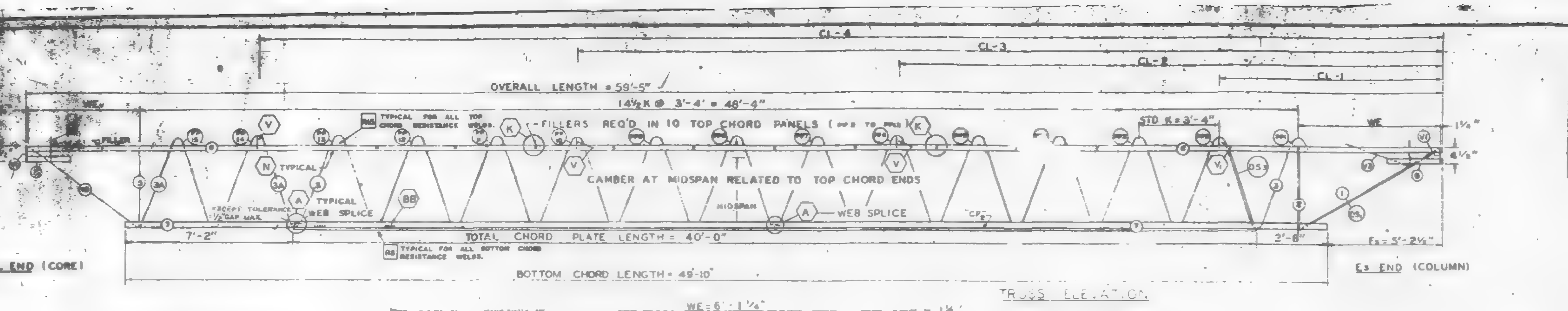
STEEL TRUSS DETAILS

FLOOR TRUSS C32T8C 59'-8" OVERALL

WORLD TRADE CENTER TOWER A-B

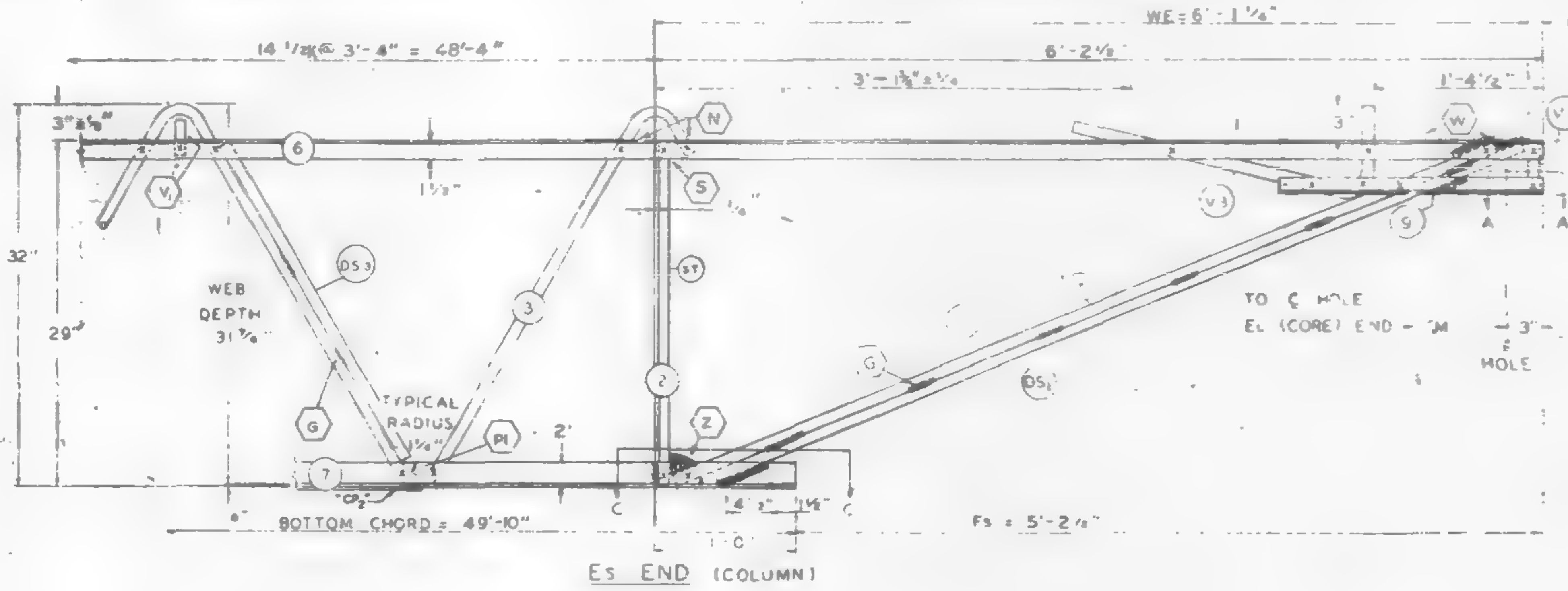
[illegible] STEEL COMPANY

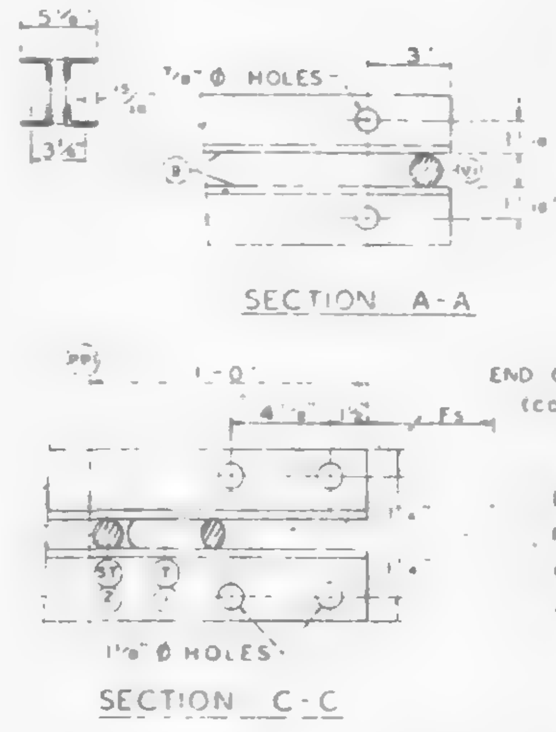
[illegible]	DESIGN DRAWING NO. 7-AB1-5, 7-AB3-2	PLATE
APPROVED FOR FABRICATION DATE 2/28/69	DRAWN BY [illegible] DATE FEB 10 1969	
[illegible] FABRICATION DATE	CHECKED BY T.M.CHUBA DATE FEB. 11, 1969	IN CHARGE OF PROD. DEV.
[illegible]	FABRICATION CONT. NO. WTC 221	SHEET NO. ST208 C



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-5"	± 3/8"
WEB DEPTH	3 7/8"	± 1/4"

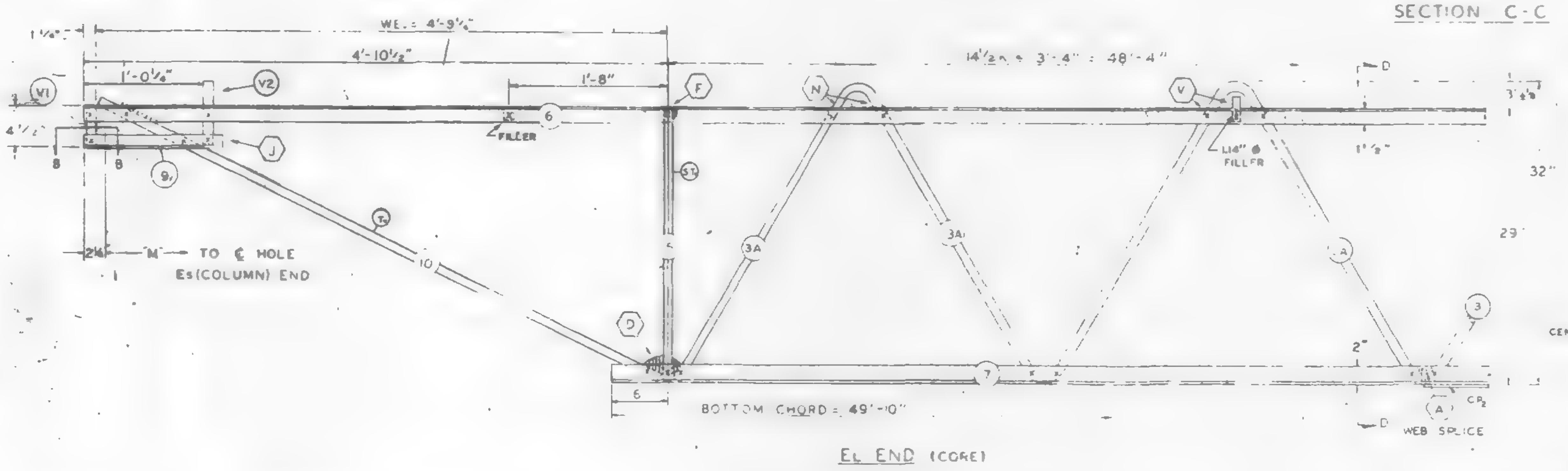


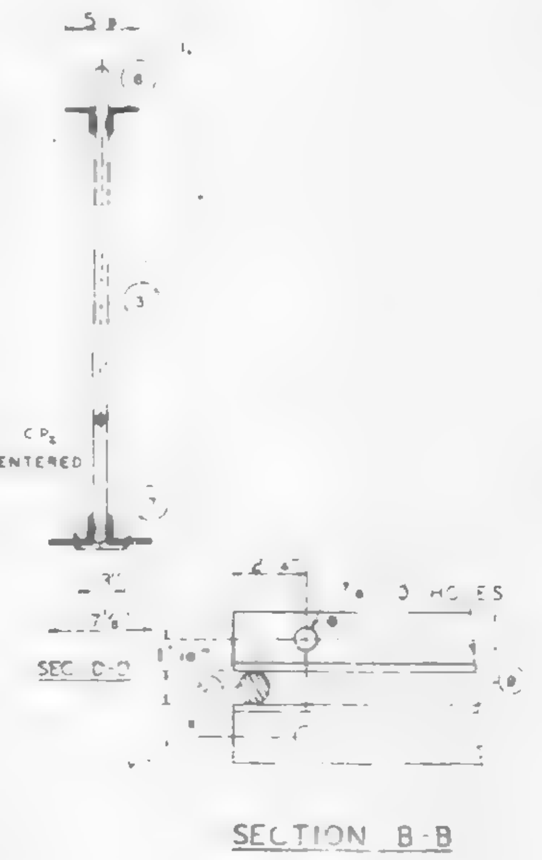


ALL PANEL POINTS RESISTANCE WELDED EX: ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280. SEE SHEET ST295 FOR V1, V2, & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





NO.	DATE	REVISION	BY

REF DRWGS

7-ABI-5	10-19-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-AB4	8-1-68
7-ABI-2	1-3-68
7-AB4-505	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8[illegible]	6	A242	2"x1½"x 3[illegible]	59'-5"	7	A36	3"x2"x 33	49'-10"	3 3A	A36 A242	1.09 1.14	78'-3¾" 12'-5½"	12½@ 3'-4" = 41'-8" 2 @ 3'-4" = 6'-8"	11	1.09	58'-11¾"	3 1	1.09 1.14	3" 3"	CP2	A36	¼x3	40'-0"	DS8	A242	.75	2'-6¾"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8[illegible] 595	9	A242	2"x1½"x 25	2'-3"	6'-1¼"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅜"	A36	1.09	2'-9¼"	DS11	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TF SS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-8½"	5'-2½"

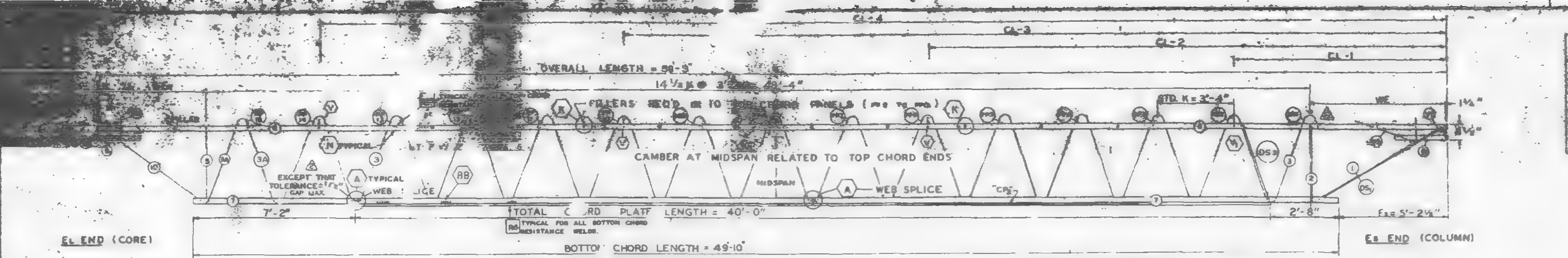
CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "WC"					WEB "WT"				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8D 595	9	A242	2"x1½"x.25	1'-2½"	4'-9½"	10	A242	1.14	5'-3"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅞	A242	1.14	7⅞	—	—	—	—	—	—	—	—	—	—	—	—	—

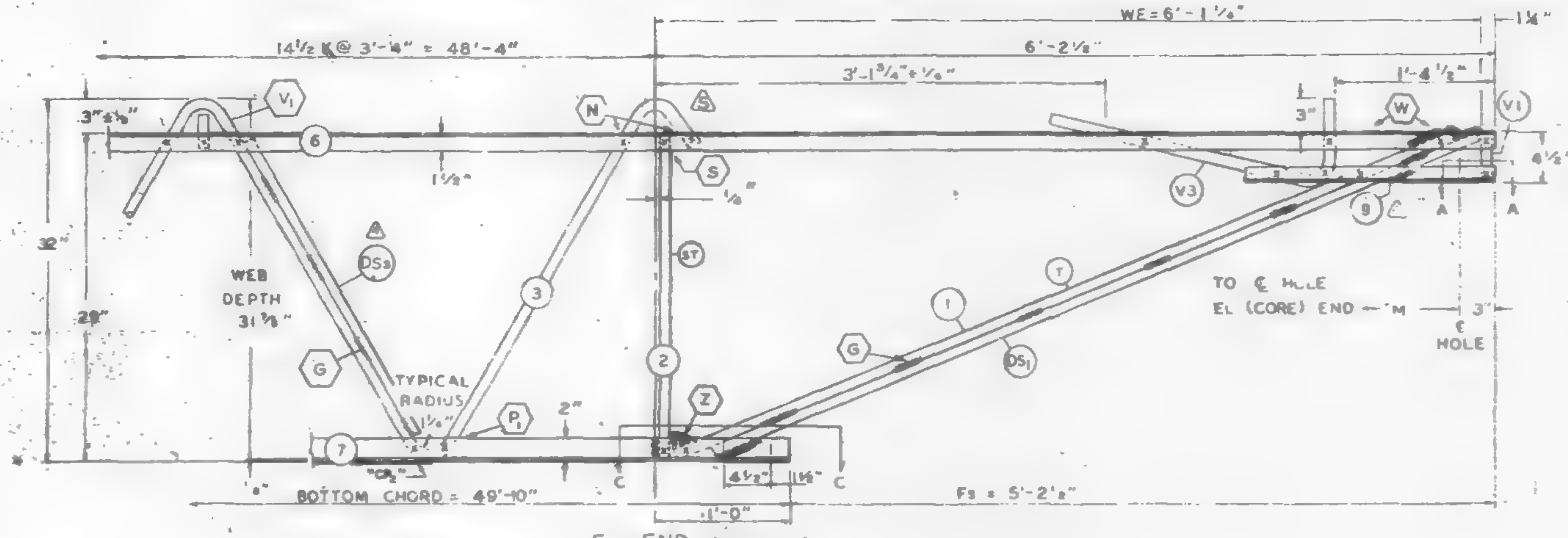
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8D 59'-5" OVERALL
WORLD TRADE CENTER TOWER A-B

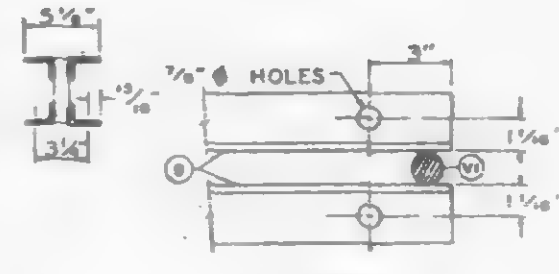
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-ABI-5, 7-ABI-2	PLATE
APPROVED FOR FABRICATION FOR PONYA James White	DATE 4/25/69	DRAWN BY [illegible] DATE APRIL 15, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 15, 1969	IN CHARGE OF PROD. DEV.
DETAILED LACLEDE STEEL CO.		FABRICATION CONT. NO. WTC 221	SHEET NO. ST[illegible]



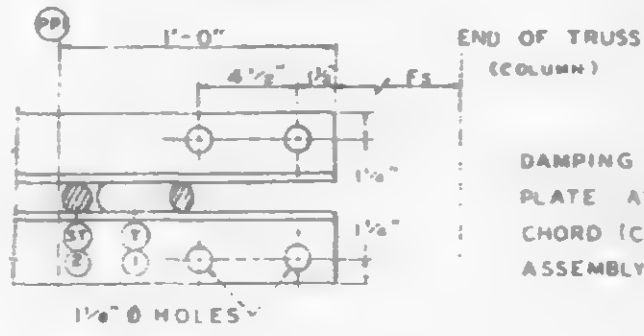
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A

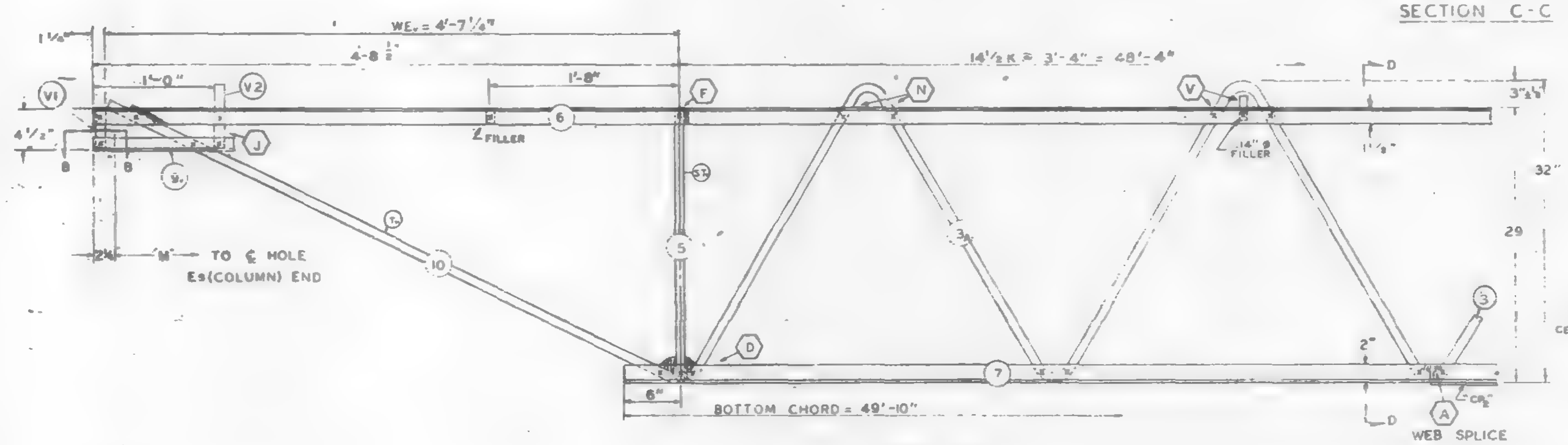


SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

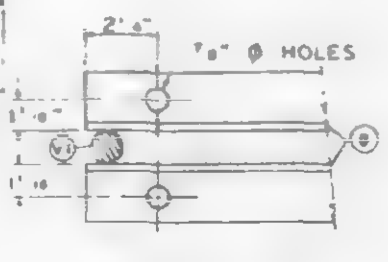
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	[illegible]
DESIGN DEPTH	[illegible]	± 1/4"
PANEL "K"	[illegible]	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	[illegible]	± 3/4"



EL END (CORE)

SEC D-D



SECTION B-B

NO	DATE	REVISION	BY
5	12-[illegible]	AS NOTED	D.C.C.
4	7-22-68	MK (9) LENGTH & DS3 LENGTH	T.M.C.
3	7-8-68	TOLERANCE, WEB SPLICE	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-AB1-5	10-15-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA.	LENGTH	NO OF K	FILLER NO	FILLER DIA	"M" C-C HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2"x1½"x.31	59'-3"	7	A36	3"x2"x.33	49'-10"	3 / 3A	A36 / A242	1.09 / 1.14	[illegible] / 12'-5½"	12½ @ 3'-4" = 41'-8" / 2 @ 3'-4" = 6'-8"	11	1.09	58 9¾	3 / 1	1.09 / 1.14	3" / 3"	CP	A36	½x3	40'-0"	DS3	A242	.75	2'-6¾"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8E-593	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-4⅞"	A36	1.09	4⅞"	A36	1.09	2'-9¼"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2⅛"

CORE END

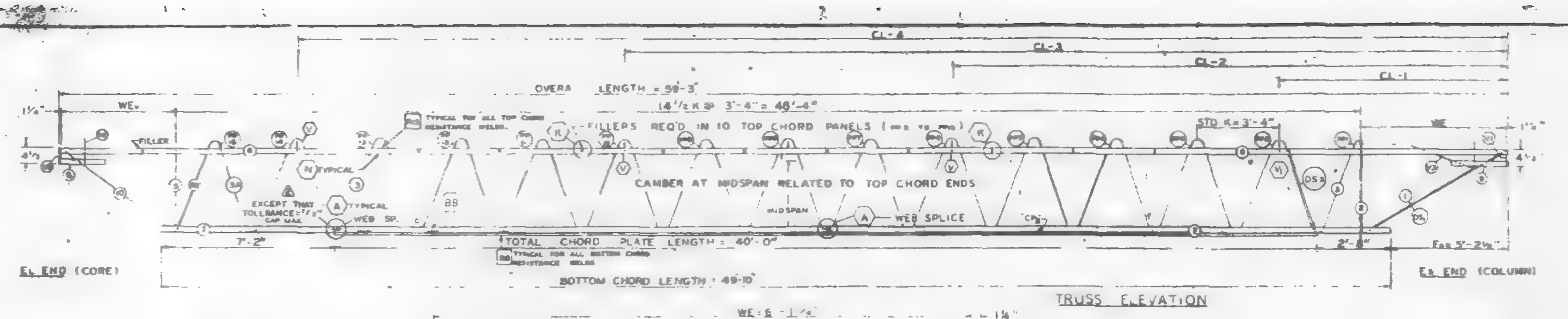
EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE1	DIAGONAL "T1" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST1" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8E-593	9	A242	2"x1½"x.25	1'-2"	4'-7¼"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4⅞"	A242	1.14	4 [illegible]	A242	1.14	7 [illegible]	—	—	—	—	—	—	—	—	—	—	—	—	—

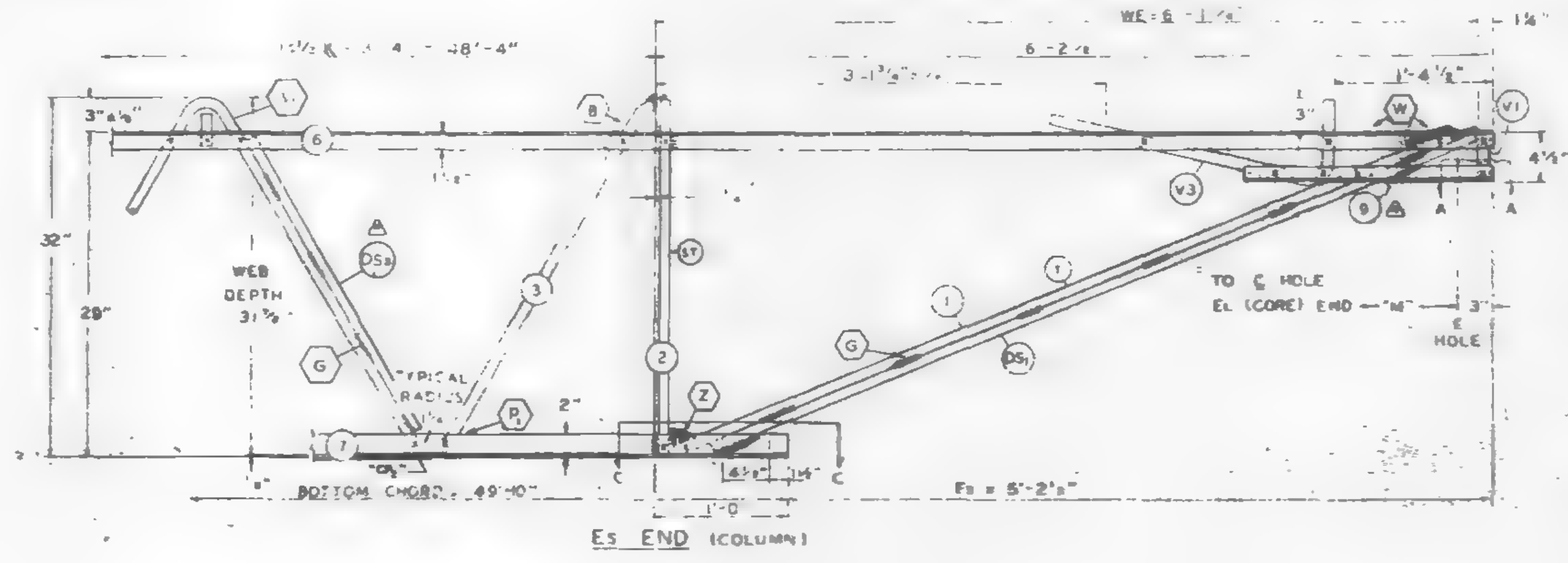
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

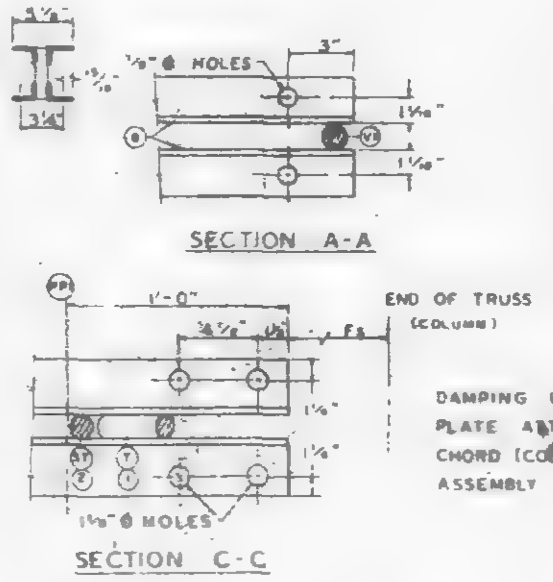
FLOOR TRUSS C32T8E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-5, 7-AB3-2 PLATE	
APPROVED FOR FABRICATION BY [signature] FOR PONYA	DATE 12/19/68	DRAWN BY [illegible] DATE FEB. 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB. 26, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO [illegible]



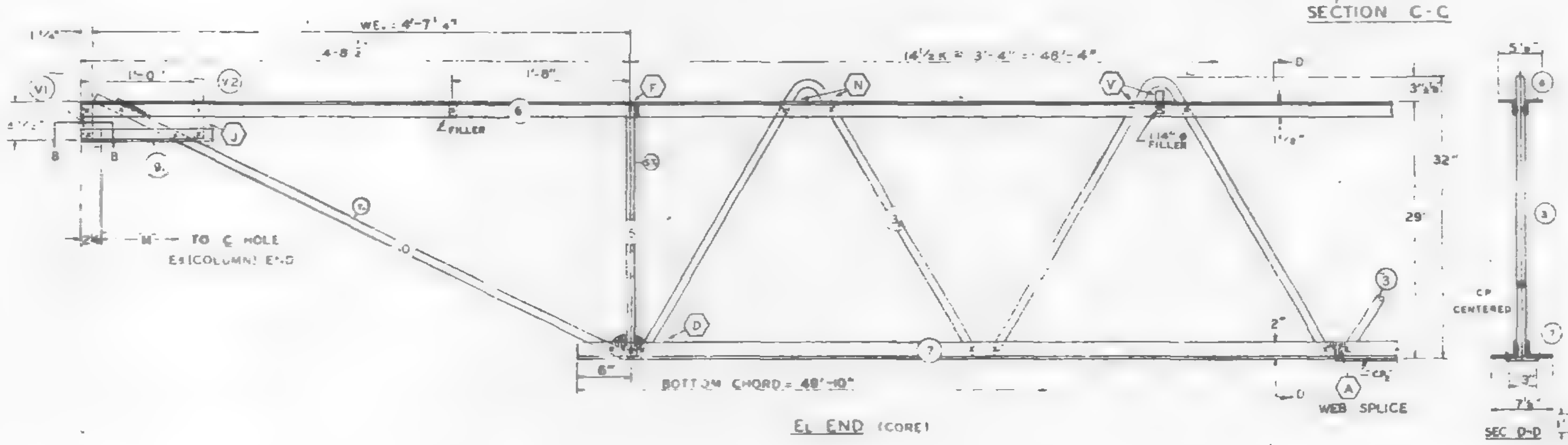


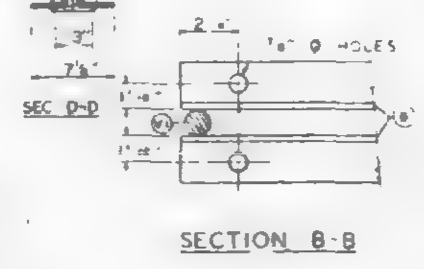


ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"





NO	DATE	REVISION	BY
4	7-22-68	MK (9) LENGTH & DS8 LENGTH	TMC
3	7-8-68	TOLERANCE, WEB SPLICE	TMC
2	6-27-68	AS NOTED	TMC
1	6-22-68	GENERAL	TMC

REF DRWGS

7-AB1-5	4-15-68
7-AB1-52	2-15-68
7-AB1-53	4-3-68
7 AB4 50 & 50.2	10-20-67
7 AB3-2	1-3-68
7 AB4 50.3	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" CL HOLE	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2"x1½"x.3	59'-3"	7	A36	3"x2"x.33	48'-10"	3 / 3A	A36 / A242	1.09 / 1.14	77'-10⅜" / 12'-3½"	[illegible]	11	1.09	56'-9¾"	3 / 1	1.09 / 1.14	[illegible]	CP	A36	[illegible]	40'-0"	DS8	A242	.75	2'-6¾"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T8E-593	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-7⅝"	A36	1.09	4⅝"	A36	1.09	2'-9½"	DS1	A242	.92	6'-3¼"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	FS
9'-8½"	22'-10½"	36'-2½"	48'-6½"	5'-2½"

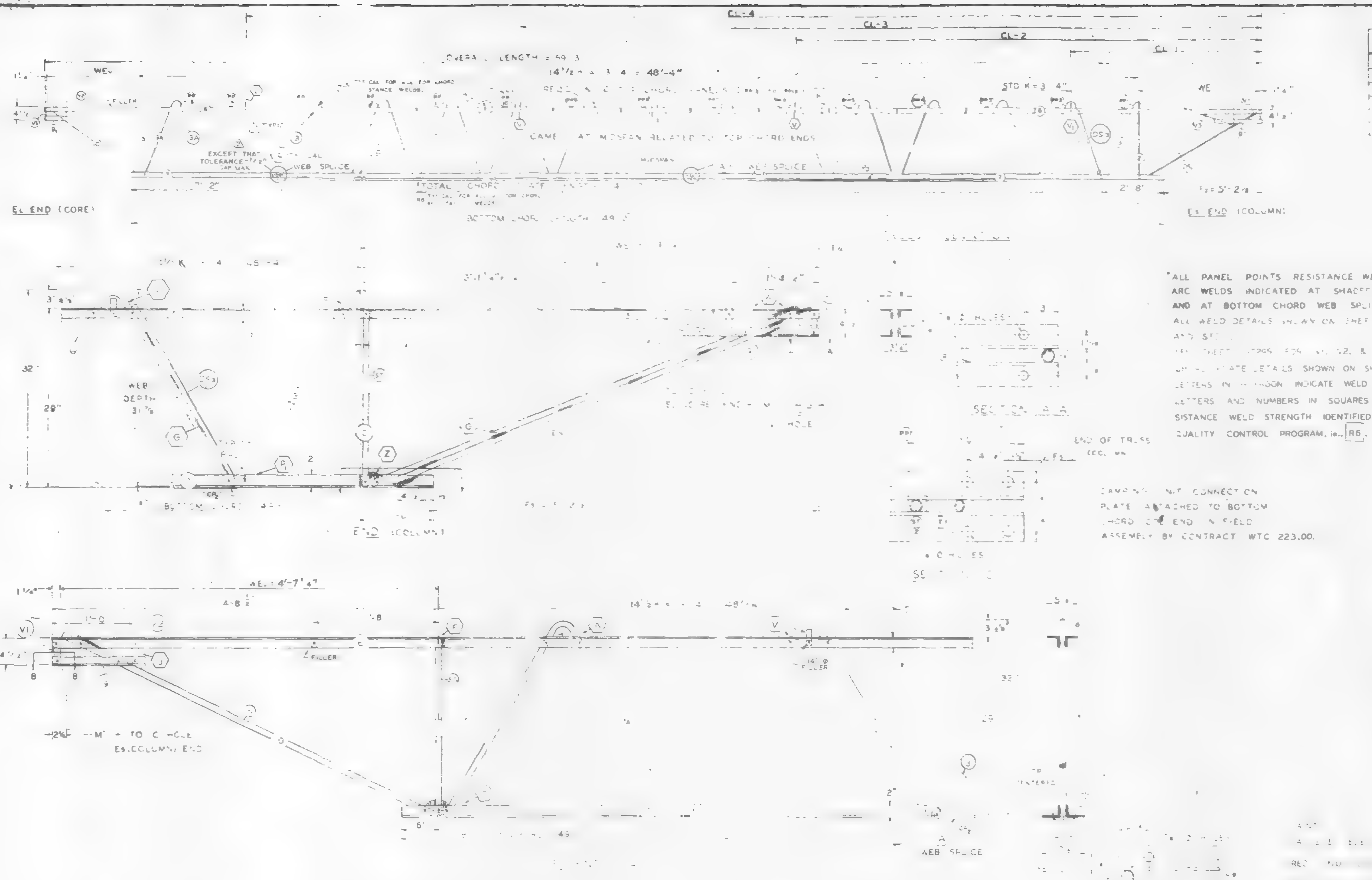
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			MK V4			WEB					WEB				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T8E-593	[illegible]	A242	[illegible]	1'-2"	4'-7¼"	10	A242	1.14	5'-1"	5	A242	1.14	2'-4⅝"	A242	1.14	4"	A242	1.09	[illegible]	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - NYC
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION FOR PONYA — DATE 9/2/68
DRAWN BY [illegible] DATE FEB 26, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE
CHECKED BY JR PAUL DATE FEB 26, 1968
IN CHARGE OF PROD DEV
LACLEDE STEEL CO.
FABRICATION CONT NO WTC 221
SHEET NO [illegible]



FABRICATION REQUIRMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2	± 3/8"
DESIGN DEPTH		± [illegible]
PANEL [illegible]	3' 4"	± [illegible]
OVERALL LENGTH	59' 3"	± 3/8"
WEB DEPTH	31 7/8	± 1/4"

*ALL PANEL POINTS RESISTANCE WELDED. ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST[illegible].
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
[illegible] PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD ONE END IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

NO	DATE	REVISION	BY
3	7-8-68	TOLERANCE, WEB SPLICE	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-AB1-5	4-15-68
7-AB1-52	2-15-68
7-AB1-53	1-3-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	[illegible] 68
7-AB4-50.5	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB							FILLERS						DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF [illegible]	MK	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2" x [illegible]	59' 3	[illegible]	A36	3 x 2 x .33	49'-10"	3/33	A36/A242	1.09/1.14	[illegible]	[illegible]	[illegible]	1.09	[illegible]	[illegible]	[illegible]	CR	[illegible]	[illegible]	40'-0"	DS	A242	[illegible]	[illegible] 8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Es
9'-6"	22'-10"	36'-2"	49'-6"	5'-2"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	STRUT MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	9	A242	2"x1½"x.25	2'-0"	6'-1¼"		A36	.109	6'-3⅛"	2	A36	.109	2'-7⅝"	A36	.109	4⅝"	A36	.109	2'-9⅛"	DS	A242	.92	6'-3⅛"

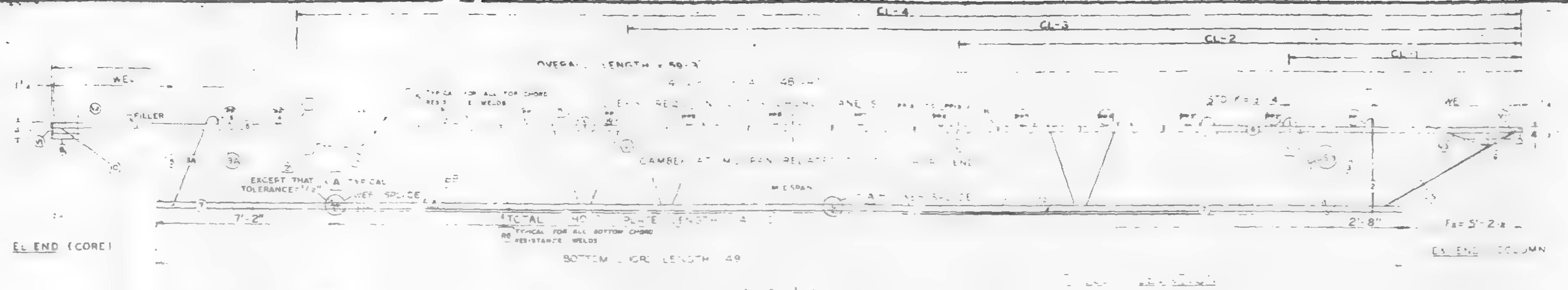
CORE END

El END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE.	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WY" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8E-593	9	A242	2"x1½"x.25	1'-2"	4'-7¼"	10	A242	.114	5'-1"	5	A242	.114	2'-4⅝"	A242	.4	4⅞	A242	.4	7		—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-5 7-AB3-2 PLATE	
APPROVED FOR FABRICATION BY JW FOR P.O.N.Y.A. DATE 7/12/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY J R PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD DEV.
DETAILED BY A.C. WEBER	FABRICATION CONT NO WTC 221	SHEET NO. [illegible]



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MID SPAN	2"	3/8"
DESIGN DEPTH	29	± 1/4"
PANEL POINT	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	± 1/8"
WEB DEPTH	3'-8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED ✱
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES ▬
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST28C
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., ⟨A⟩
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD END IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

NO	DATE	REVISION	BY
2	8-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-AB1-5	4-15-68
7-AB1-52	2-5-68
7-AB1-53	1-3-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES	BOTTOM CHORD TWO ANGLES	MAIN WEB	FILLERS	END STRUT TYPE STEEL / SIZE / LENGTH
C32T8E-593	6 A242 2 [illegible]	[illegible] 33 49'-10"	A36 / A242 [illegible]	[illegible] CF2 [illegible] 40'-0"	[illegible] 8"

COLUMN END	E₂ END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	STRUT MK	TYPE STEEL	DIA	LENGTH
		C32T8E-593	9	A242	2"x1½"x.25	2'-0"	6'-[illegible]"		A36	.109	6'-3⅛"	2	A36	.109	2'-7⅝"	A36	.109	4⅝"	A36	.109	2'-9½"	D3	A242	.92	6'-3½"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END	E₁ END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
		C32T8E-593	9	A242	2"x1½"x.25	1'-2"	4'-7¼"	10	A242	.114	5'-1"	5	A242	1.4	2'-4⅝"	A242	.14	4"	A242	.114	7"	—	—	—	—	—	—	—	—	—	—	—	—	—

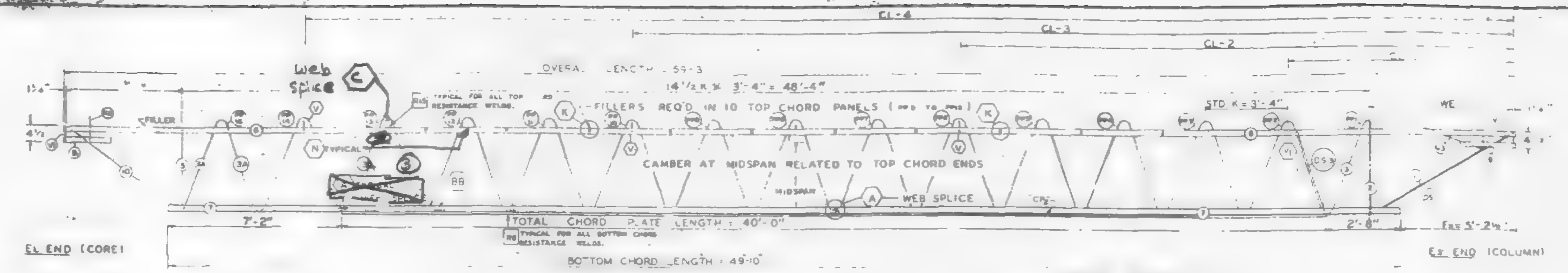
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

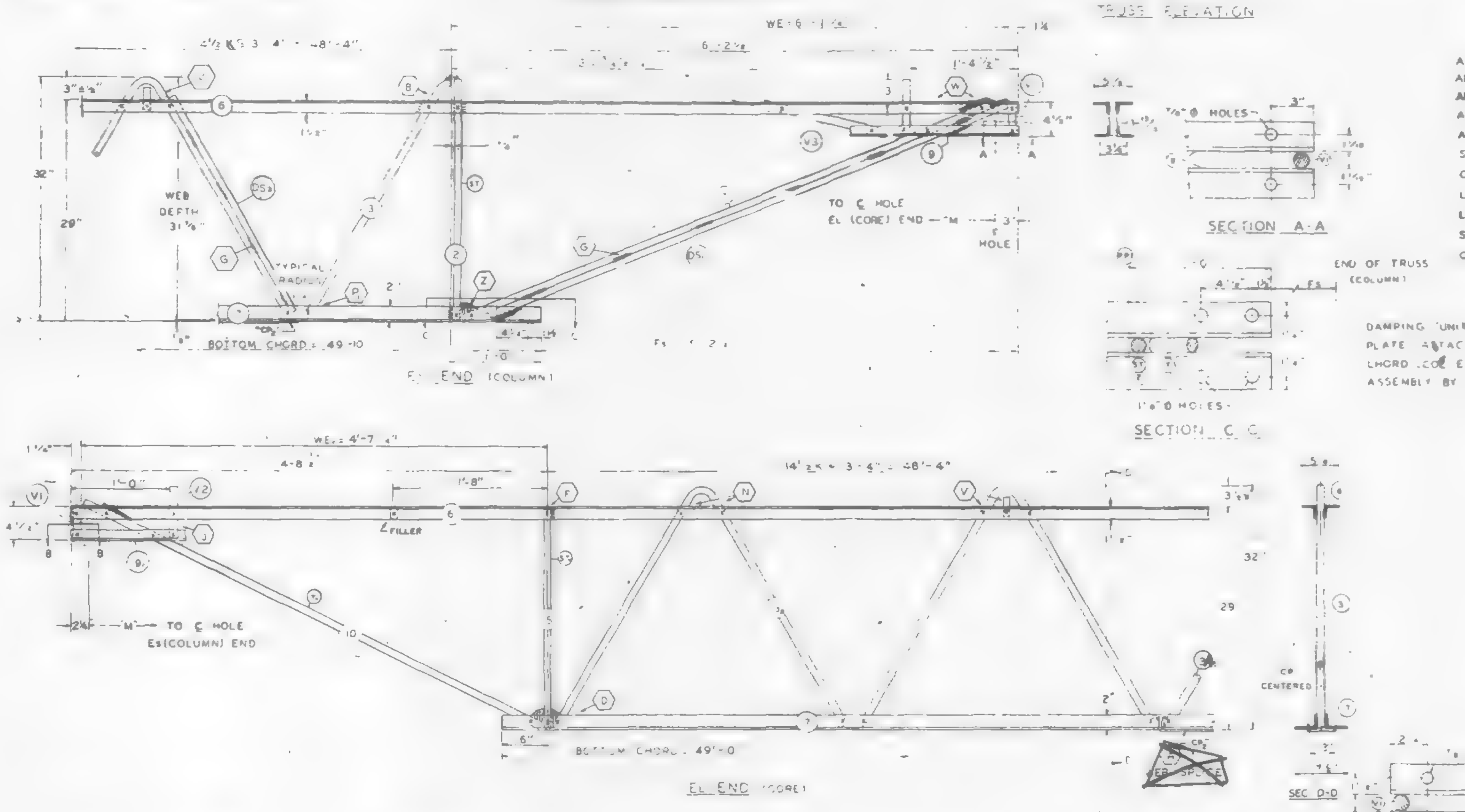
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-5 7-AB3-2	PLATE
APPROVED FOR FABRICATION BY JW FOR PONYA	DATE 7/5/68	DRAWN BY LL DATE FEB 24 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY JR PAUL DATE FEB 24 1968	IN CHARGE OF PROB DEV 1
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO. [illegible] B

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59' 3"	± 2"
WEB DEPTH	31 7/8"	± 1/4"



TRUSS ELEVATION



ALL PANEL POINTS RESISTANCE WELDED.
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

SECTION B-B

NO	DATE	REVISION	BY
1	6-22-68	GENERAL	T.M.C

REF DRWGS

7-AB1-5	4-15-68
7-AB1-52	2-15-68
7-AB1-53	1-3-68
7-AB4-50 & 50 2	10-20-67
7-AB3-2	3 69
7-AB4-50 5	10-20-67

6/15/72

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		C HOLE	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2"x1 1/8" x 3	59'-3"	7	A36	3' x 2" x 33	49'-10"	3 / 3A	A36 / A242	1.09 / 1.14	[illegible]	[illegible]	11	1.09	58 9 3/4"	5 / 1	1.09 / 1.14	3" / 3"	CR	A36	1/4 x 3	40'-0"	DS	A242	75	2'-8 1/2

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T8E-593	9	A242	2"x1 1/2"x 25	2'-0"	6'-1 1/4"		A36	1.09	6'-3 1/8"	2	A36	1.09	2'-7 5/8"	A36	1.09	4 3/8"	A36	1.09	2'-9 1/8"	DS	A242	92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/4"

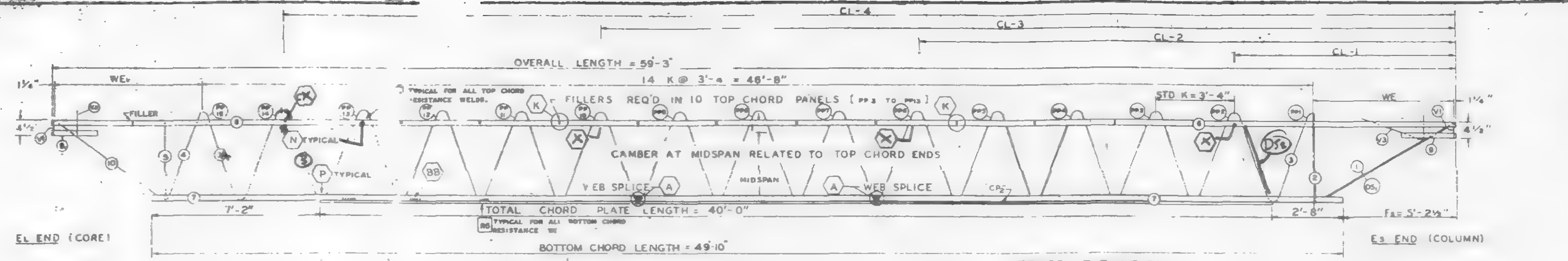
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			END STIFFENER MK V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T8E-593	8	A242	2"x1 1/2"x 25	1'-2"	4'-7 1/4"	10	A242	1.14	5'-1	5	A242	1.14	2'-4 5/8"	A242	1.14	4	A242	1.14	7	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

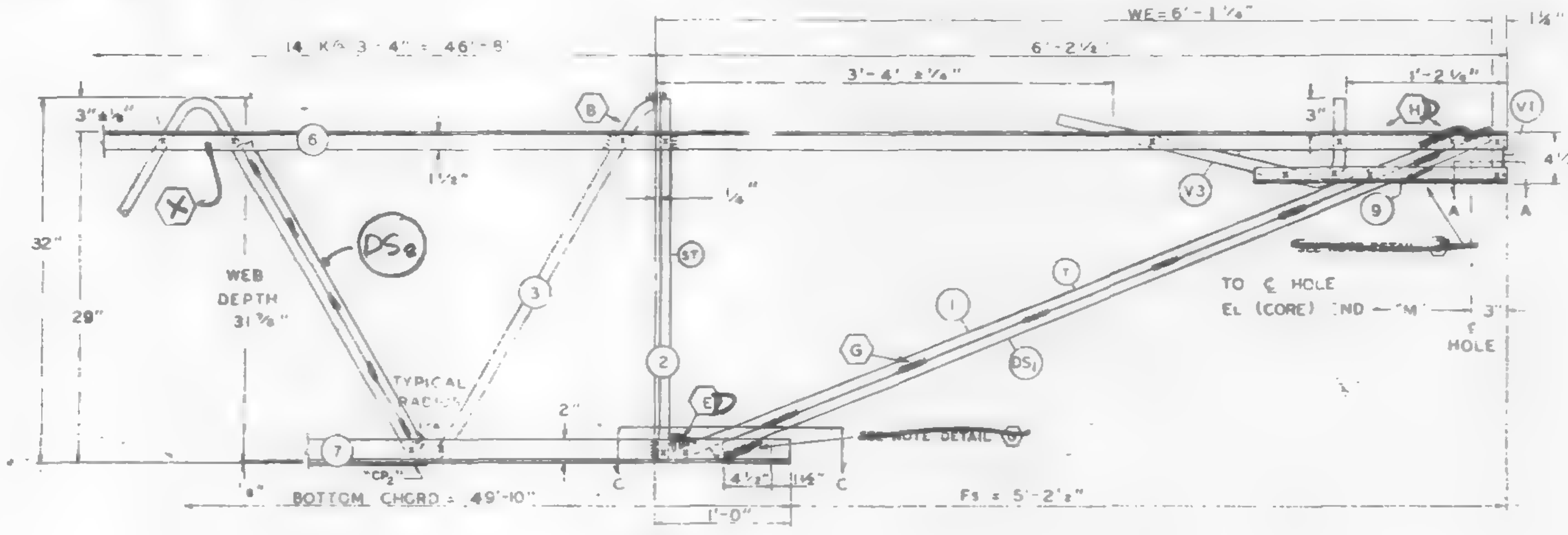
FLOOR TRUSS C32T8E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-5 7-AB3-2 PLATE	
APPROVED FOR FABRICATION BY FOR PONYA DATE	DRAWN BY DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY J R PAUL DATE FEB. 26, 1968	IN CHARGE OF PROD DEV
DETAILED BY A C WEBER	FABRICATION CONT NO WTC 221	SHEET NO. ST208E

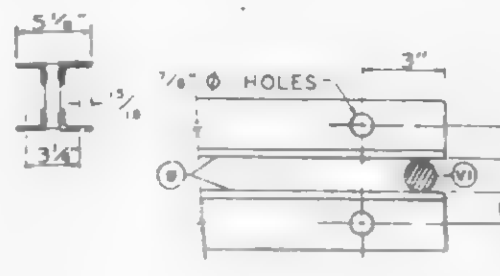


TRUSS ELEVATION

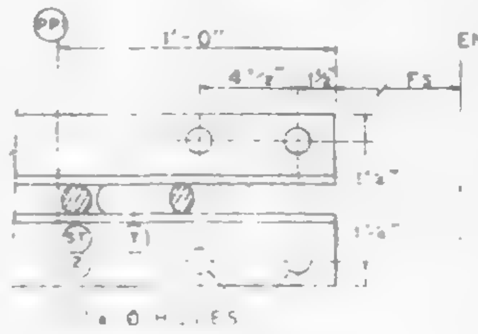
FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-3"	3/8"
WEB DEPTH	31 7/8"	± 1/4"



Es END (COLUMN)



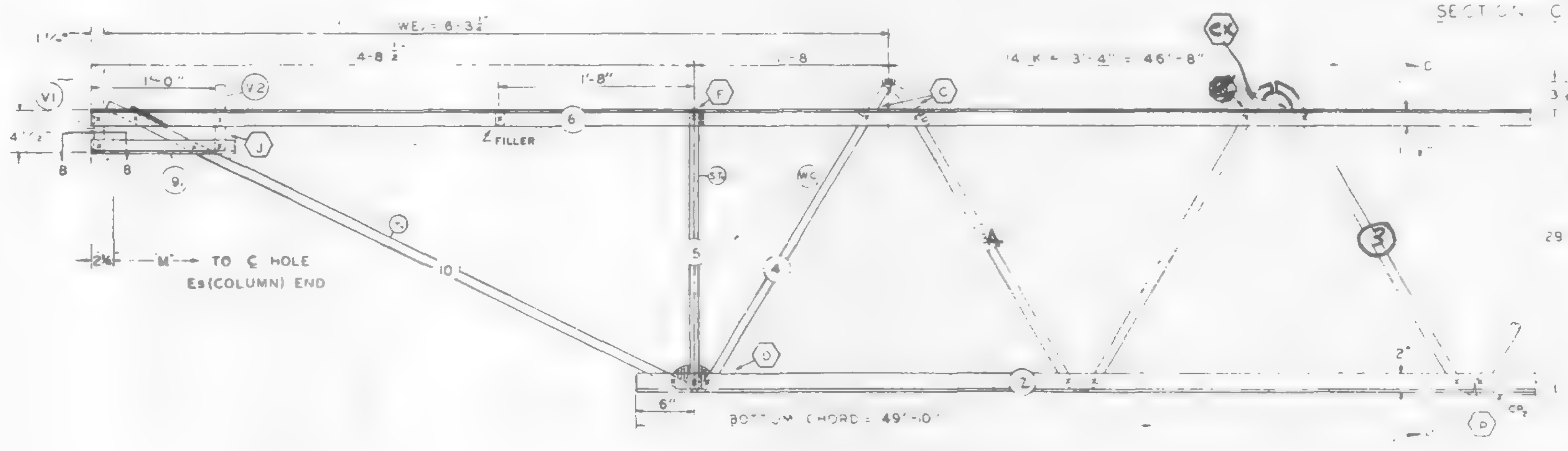
SECTION A-A



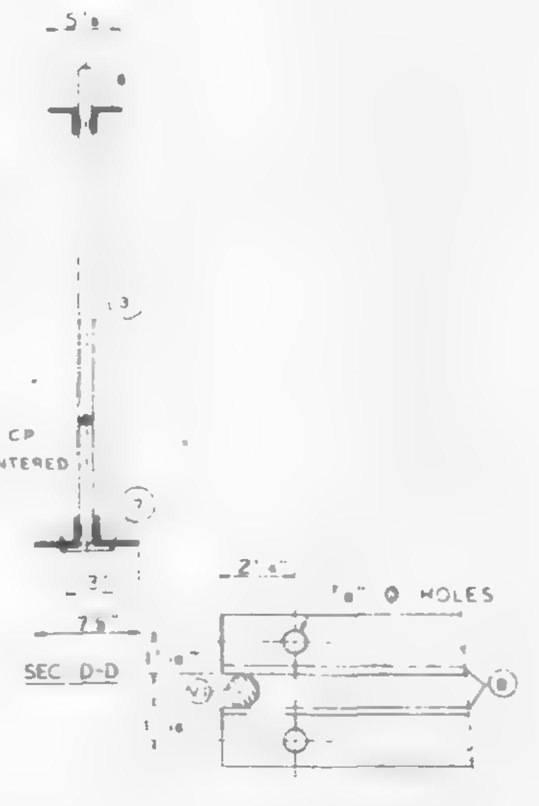
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., ⟨A⟩.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)



SECTION B-B

6/17/68 WAB

4-15-68

REF DRWGS
7-AB1-5
7-AB1-52 2-15-68
7-AB1-53 1-3-68
7-AB4-50 & 50 2 10-20-6?
7-AB3-2
7-AB4-50 5 10-2?-6

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" ℄ ℄ HOLE	TRUSS DATA		CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T8E-593	6	A242	2"x[illegible]x.3	59'-3"	7	A36	3x2"x.33	49'-10"	3	A36	1.09	87'-2⅛"	14 @ 3'-4" = 46'-8"	11	1.09	58'-9¾"			CP	A36	½x3	40'-0"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T8E-593	9	A242	2"x1½"x.25	1'-10"	6'-1¼"		A36	1.09	6'-3⅛"	2	A36	1.09	2'-7⅝"	A36	1.09	4⅝"	A36	1.09	2'-9½"	DS1	A242	.75	6'-3⅛"
																					DS2	A242	.75	

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-8½"	5'-2½"

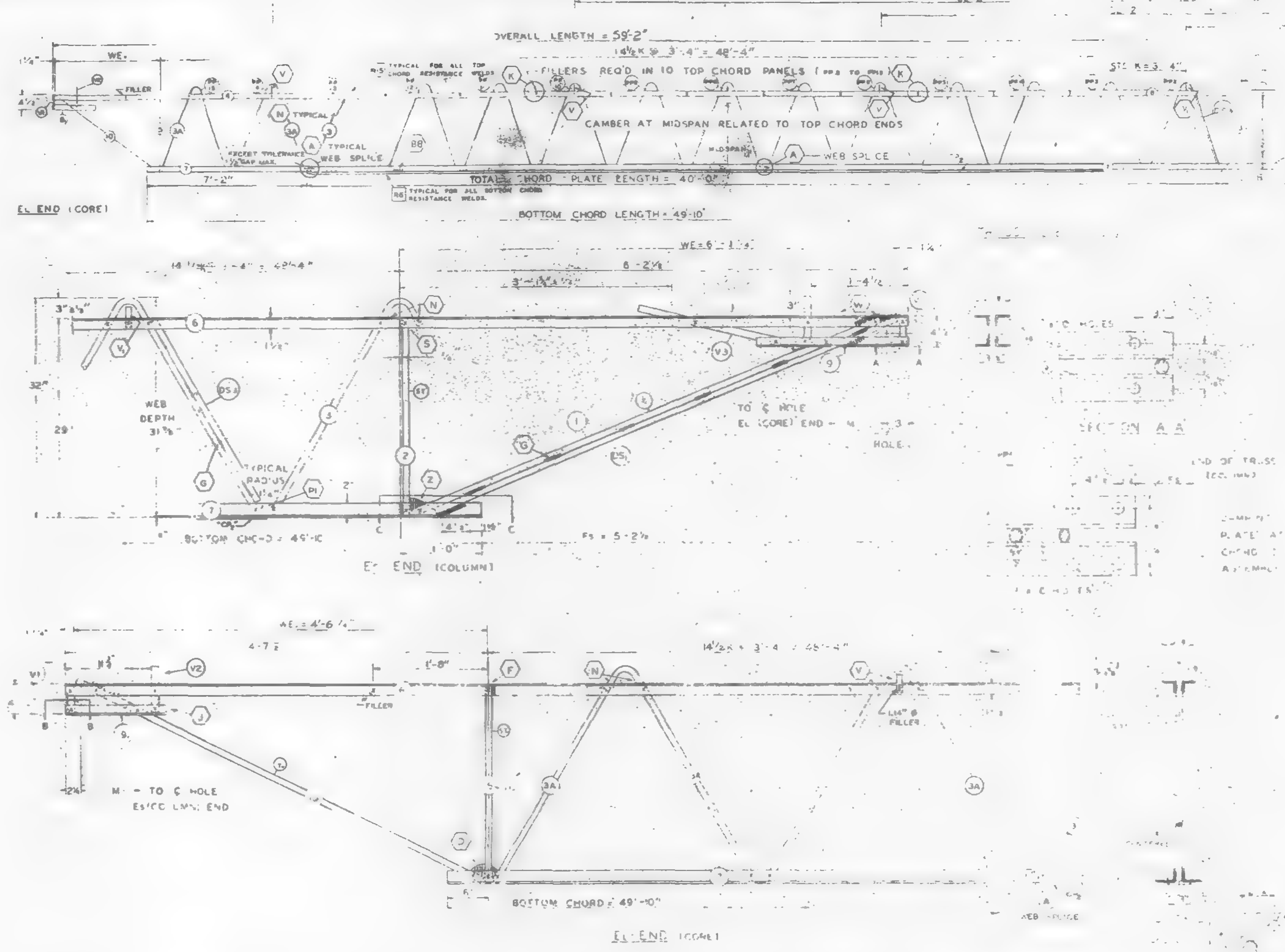
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WY" MK	TYPE STEEL	PCS	DIA	LENGTH	Web MK	TYPE STEEL	DIA
	C32T8E-593	9	A242	2"x1½"x.25	1'-2"	6'-3	10	A242	1.14	5'-1"	5	A242	1.14	2'-4¾"	A242	1.14	4"	A242	1.14	7"	—	—	—	4	A242	1	1.14	3'-0½"	-	—	—	—	—	3A	A242	1.14

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8E 59'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR PONYA — DATE	DRAWN BY — DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR LACLEDE — DATE	CHECKED BY J R PAUL DATE FEB 24, 1968 — IN CHARGE OF PROD DEPT
DETAILED BY A.C. WEBER	FABRICATION CONT NO WTC 221 — SHEET NO ST208E



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DEPTH OF [illegible]	30"	± 1/8"
PANEL [illegible]	3'-4"	± 1/8"
OVERALL LENGTH	59'-2"	± 3/8"
WEB DEPTH	31 7/8"	± 1/8"

ALL PANEL POINTS RESISTANCE WELDED. ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST28[illegible].

CHORD PLATE DETAILS SHOWN ON SHEET ST280. SEE SHEET ST295 FOR V1, V2, & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAIL, e.g. (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, e.g. R6

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF	FILLER NO	DIA	"M" ℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	HOR PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8F 592	6	A242	2"x1½"x .31	59'-2"	7	A36	3"x2"x 3[illegible]	49'-10"	3 3A	A36 A242	1.09 1.14	[illegible]	[illegible]	11	1.09	58'-8¾"	[illegible]	1.09 1.14	3"	CF5	A36	[illegible]3	40'-0"	CS[illegible]	A242	.75	2'-6¾"

COLUMN END

℄ END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8F -592	9	A242	2"x1½"x .25	2'-3"	6'-1¼"	1	A36	.09	6'-3¼"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅝"	A36	1.09	2'-9¼"	105	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

℄ END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8F -592	9	A242	2"x1½"x .25	1'-1¾"	4'-6¼	10	A242	1.14	5'-0½"	5	A242	1.14	2'-4⅛"	A242	1.14	4⅛"	A242	1.14	[illegible]	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS

FLOOR TRUSS C32T8F 59'-2" OVERALL

WORLD TRADE CENTER [illegible] A & B

[illegible] STEEL COMPANY

DESIGN DRAWING NO. 7-AB1-5 7-AB2-2 PLATE

James White 3/24/69

DRAWN BY [illegible] DATE MAR 6, 1969

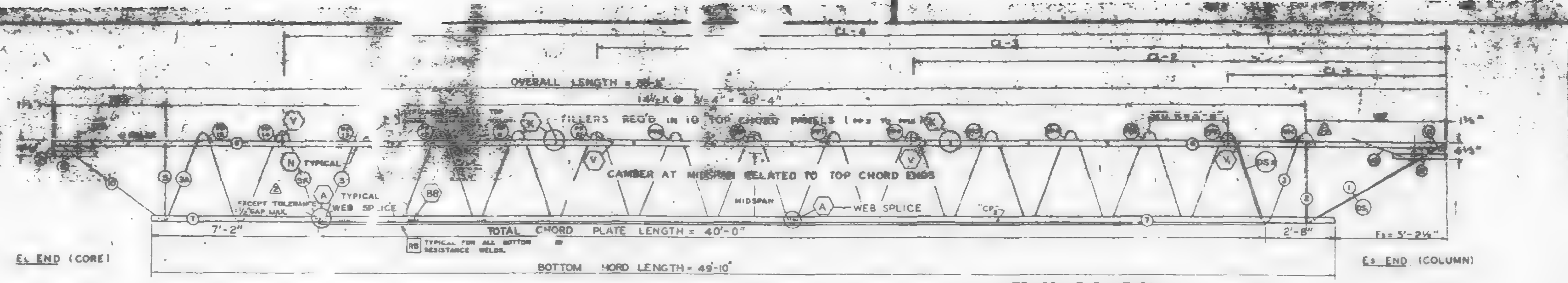
CHECKED BY TAM [illegible] MAR 6, 1969

IN CHARGE OF PROD. DEV.

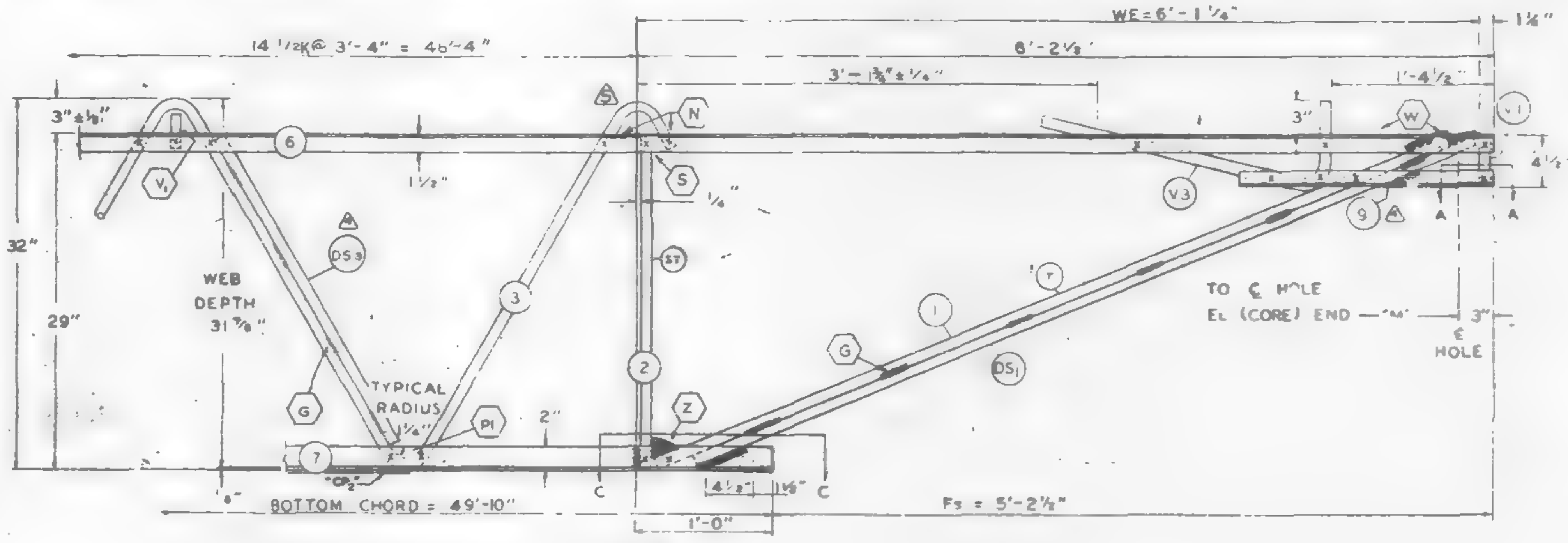
FABRICATION CONT. NO. 221

SHEET NO. ST20[illegible]

FABRICATION REQUIREMENTS		
	[illegible]	[illegible]
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	[illegible]	3'-4"
OVERALL LENGTH	58'-11"	[illegible]
WEB DEPTH	[illegible]	[illegible]



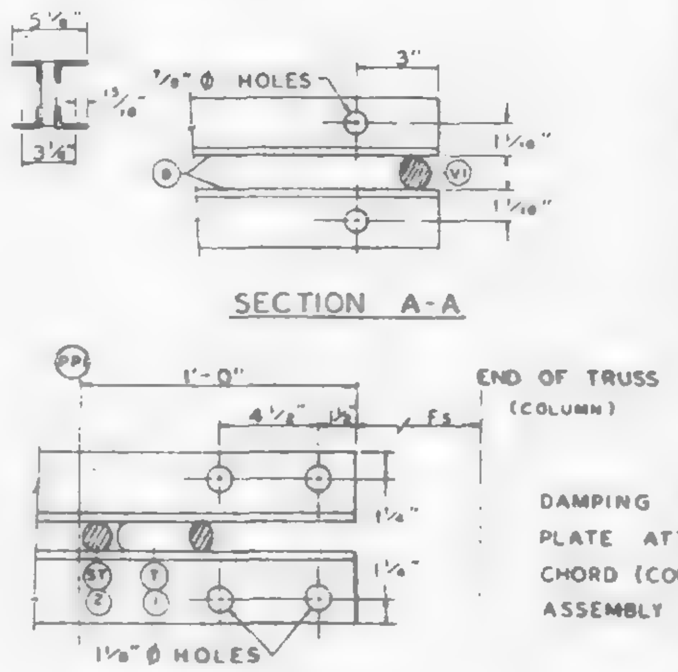
TRUSS ELEVATION



Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES ( )
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292.
AND ST280.

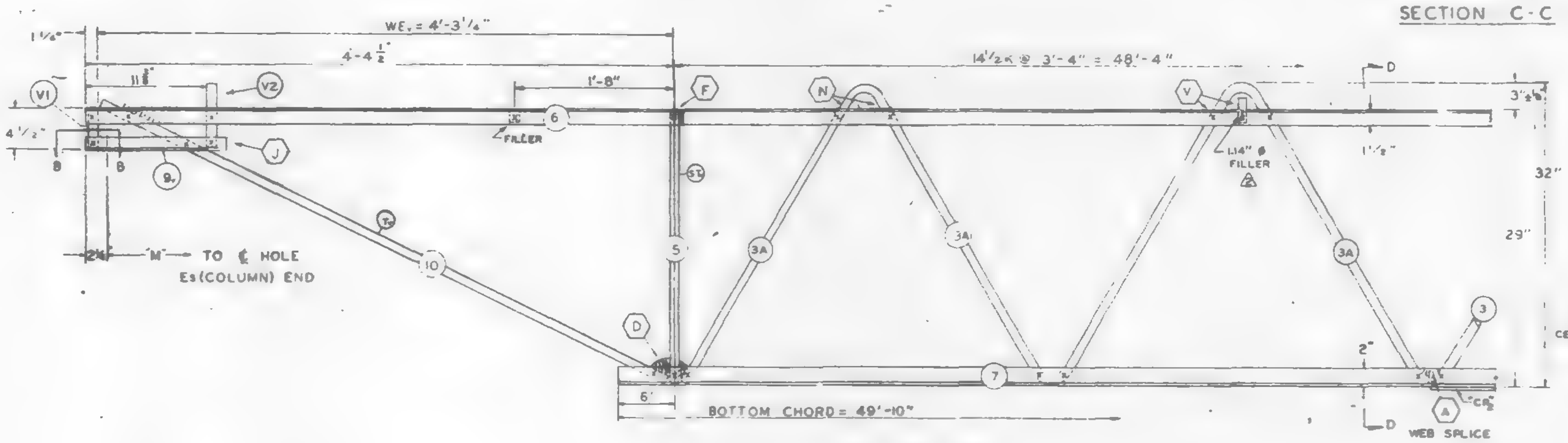
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie.. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie.. [R6].



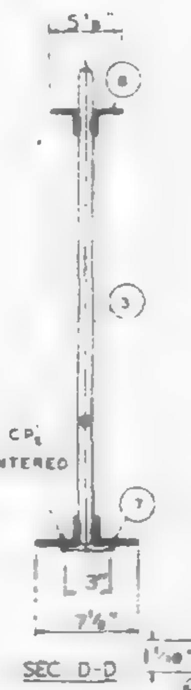
SECTION A-A

SECTION C-C

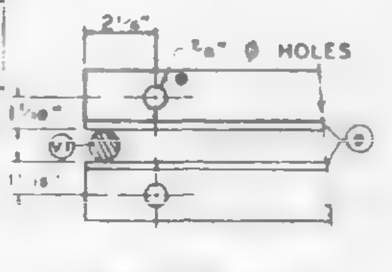
DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)



SEC D-D



SECTION B-B

NO.	DATE	REVISION	BY
5	12-12-68	AS NOTED	D.C.C.
4	7-22-68	MK (9) LENGTH & DS₁ LENGTH	T.M.C.
3	7-8-68	TOLERANCE, WEB SPLICE	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

(5) REF. DRWGS

7-AB1-5	10-19-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB4-10	9-1-68
7-AB3-2	1-3-68
7-AB4-30 5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH (5)	NO OF K	FILLER NO	DIA	"M" C/C HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (4)
C32T8G-58II	6	A242	2"x1½"x.31	58'-11"	7	A36	3"x2"x.33	49'-10"	3	A36	1.09	78'-3¾"	12½ @ 3'-4" = 41'-8"	11	1.09	58'-5¾"	3	1.09	3"	CP₁	A36	¼x3	40'-0"	DS₂	A242	.75	2'-6¼"
									3A	A242	1.14	12'-5½"	2 @ 3'-4" = 6'-8"				1	1.14	3"								

(2)

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH (4)	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH (5)	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8G-58II	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅝"	A36	1.09	2'-9⅛"	DS₁	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

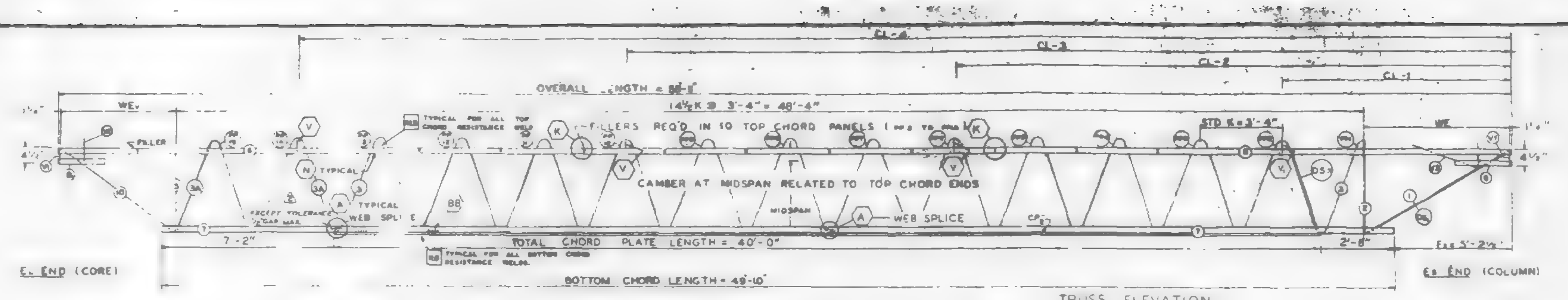
EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE₁	DIAGONAL "T₁" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST₁" STRUT MK	TYPE STEEL	DIA	LENGTH (5)	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK [illegible] TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8G-58II	9₁	A242	2"x1½"x.25	1'-1¼"	4'-3¼"	10	A242	1.14	4'-9⅛"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅛	A242	1.14	7⅛"	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

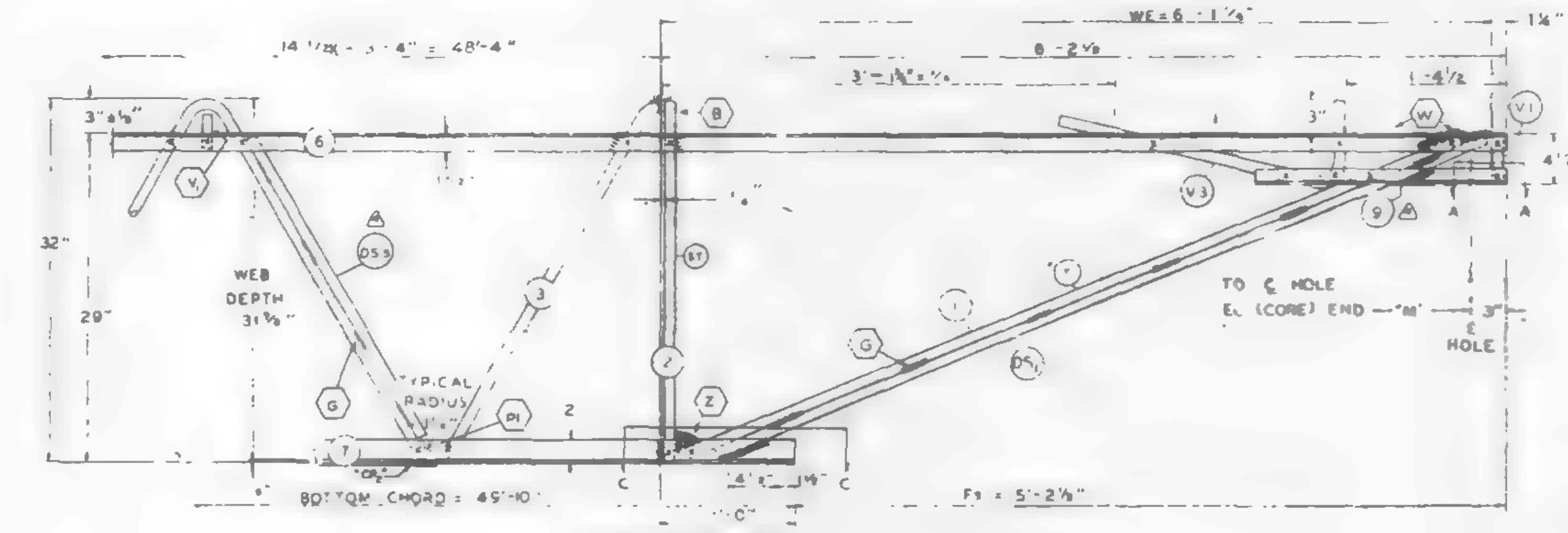
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-5, 7-AB3-2 PLATE	
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White	DATE 12/19/68	DRAWN BY [illegible] DATE FEB. 24, 1968	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER (LACLEDE STEEL CO.)		FABRICATION CONT NO WTC 221	SHEET NO. ST[illegible]

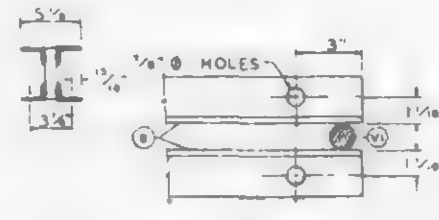


TRUSS ELEVATION

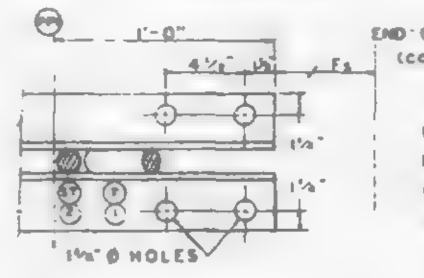
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-11"	± 3/8"
WEB DEPTH	3'-7⅞"	± 1/4"



Es END (COLUMN)



SECTION A-A

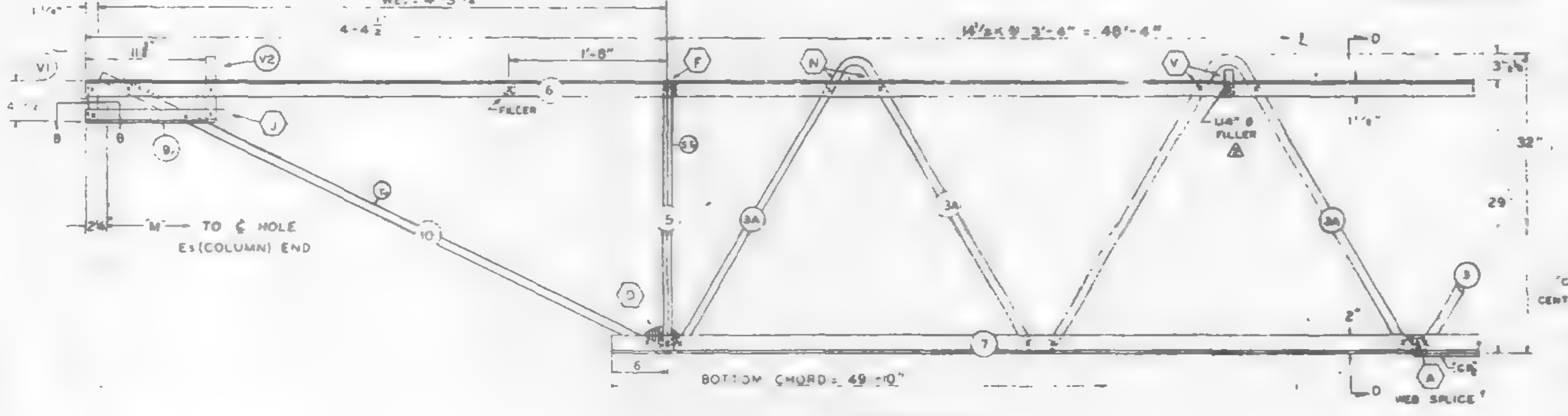


SECTION C-C

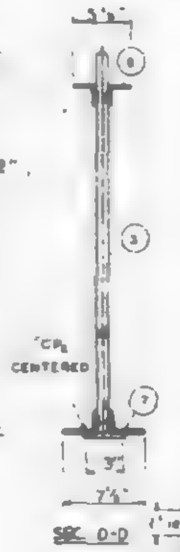
ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

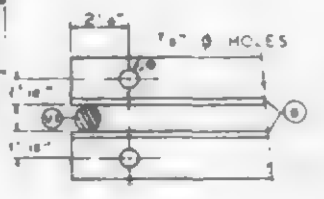
CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



EL END (CORE)





SECTION B-B

NO.	DATE	REVISION	BY
4	7-22-68	MK (9) LENGTH & DS1 LENGTH	TMC
3	7-8-68	TOLERANCE, WEB SPLICE	TMC
2	6-27-68	AS NOTED	TMC
1	6-22-68	GENERAL	TMC

REF DRWGS
7-AB1-5 4-15-68
7-AB1-12 2-15-68
7-AB1-53 1-3-68
7-AB4-30 & 30.2 10-20-67
7-AB1-2 [illegible]
7-AB4-30.3 10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
C32T8G-58II	6	A242	2"x1½"x 3	58'-11"	7	A36	3"x2"x 33	48'-10"	3 / 3A	A36 / A242	1.09 / 1.14	[illegible] / 12'-5½"	12½@3'-4" = 41'-8" / 2@3'-4" = 6'-8"	11	1.09	56'-5⅝"	3 / 1	1.09 / 1.14	[illegible]	CP2	A36	⅝x3	40'-0"	DS2	A242	.75	2'-6¼"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
	C32T8G-58II	9	A242	2"x1½"x 25	2'-3"	6'-1½"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅝"	A36	1.09	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-8½"	22'-10½"	36'-2½"	48'-8½"	5'-2½"

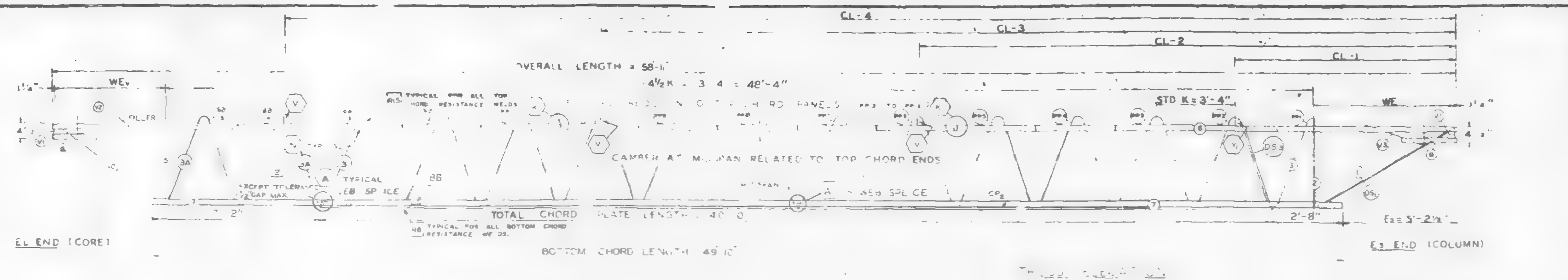
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE.	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "W"					WEB			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	[illegible]	DIA	LENGTH	MK.	TYPE STEEL	[illegible]	LENGTH
	C32T8G-58II	9	A242	2"x1½"x 25	1'-1¼"	4'-3¼"	10	A242	1.14	4'-9½"	5	A242	1.14	2'-4⅜"	A242	1.14	4½"	A242	1.14	7⅞"	—	—	—	—	—	—	—	—	—	—	—	—

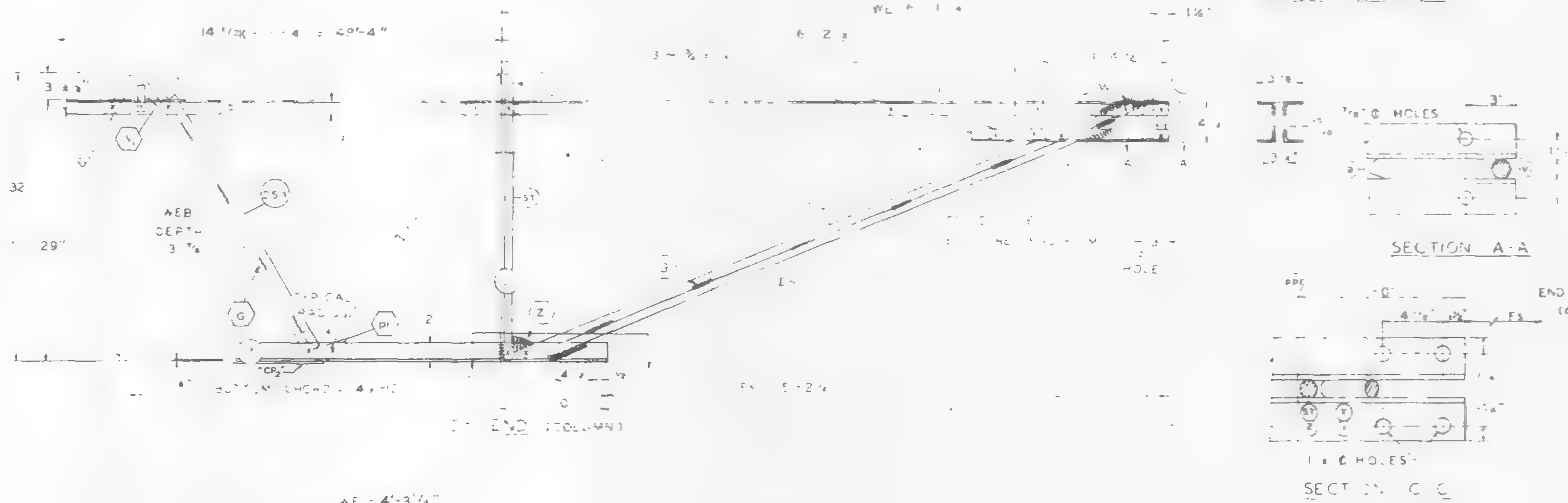
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-8

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY [signature] FOR PONYA DATE 8/2/68
DRAWN BY [initials] DATE FEB 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY DATE FEB 24, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY
FABRICATION CONT. NO. 221
SHEET NO. ST206G



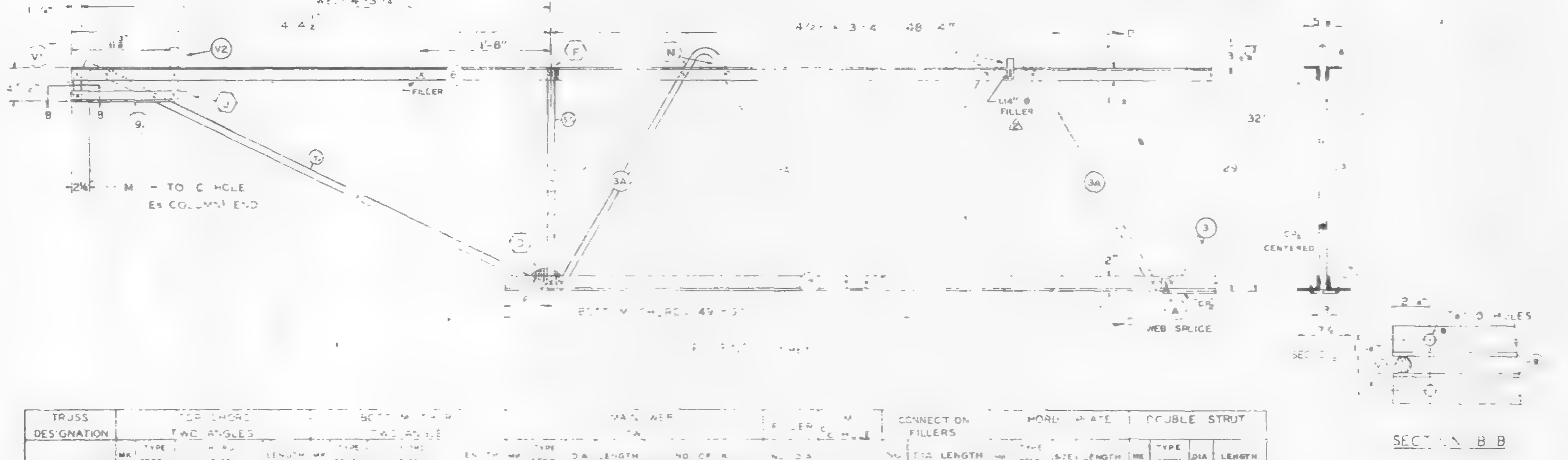
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	8"	± 1/4"
PANEL [illegible]	[illegible]4"	± [illegible] 4"
OVERALL LENGTH	58'-11"	± [illegible] 8"
WEB DEPTH	3 7/8	± [illegible]4



ALL PANEL POINTS RESISTANCE WELDED EX- ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST28[illegible].

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST205 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie.. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie.. [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



NO.	DATE	REVISION	BY
3	7-8-68	TOLERANCE, WEB SPLICE	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-AB1-5	4-15-68
7-AB1-52	2-15-68
7-AB1-53	1-3-68
7-AB4 [illegible] & 50 2	10-20-67
7-AB3-2	1-3-68
7-AB4-50 3	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO. 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB					FILLER		CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	MK	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8G-58'	6	A242	2 × [illegible]	58'	[illegible]	A36	[illegible]	49'-10"	3 / 3A	A36 / A242	1.09 / 1.14	77'-10⅜" / 12'-5½"	12½ / 2	[illegible]	1.09	3 / 1	1.09 / 1.14	3" / 3"	CP2	A36	[illegible]	40'-0"	DS3	A242	.75	2'-8½"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL STRUT				VERTICAL ST STRUT				END STIFFENER						[illegible]			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T8G-58'11"	9	A242	2"x1½"x.25	2'-0"	6'-[illegible]"	[illegible]	A36	1.09	6'-3⅛"	2	A36	1.09	2'-7⅞"	A36	1.09	4⅞"	A36	1.09	2'-9[illegible]"	DS1	A242	.92	6'-3½"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Es
9'-6[illegible]"	22'-10⅛"	36'-2⅛"	49'-6½"	5'-2½"

CORE END

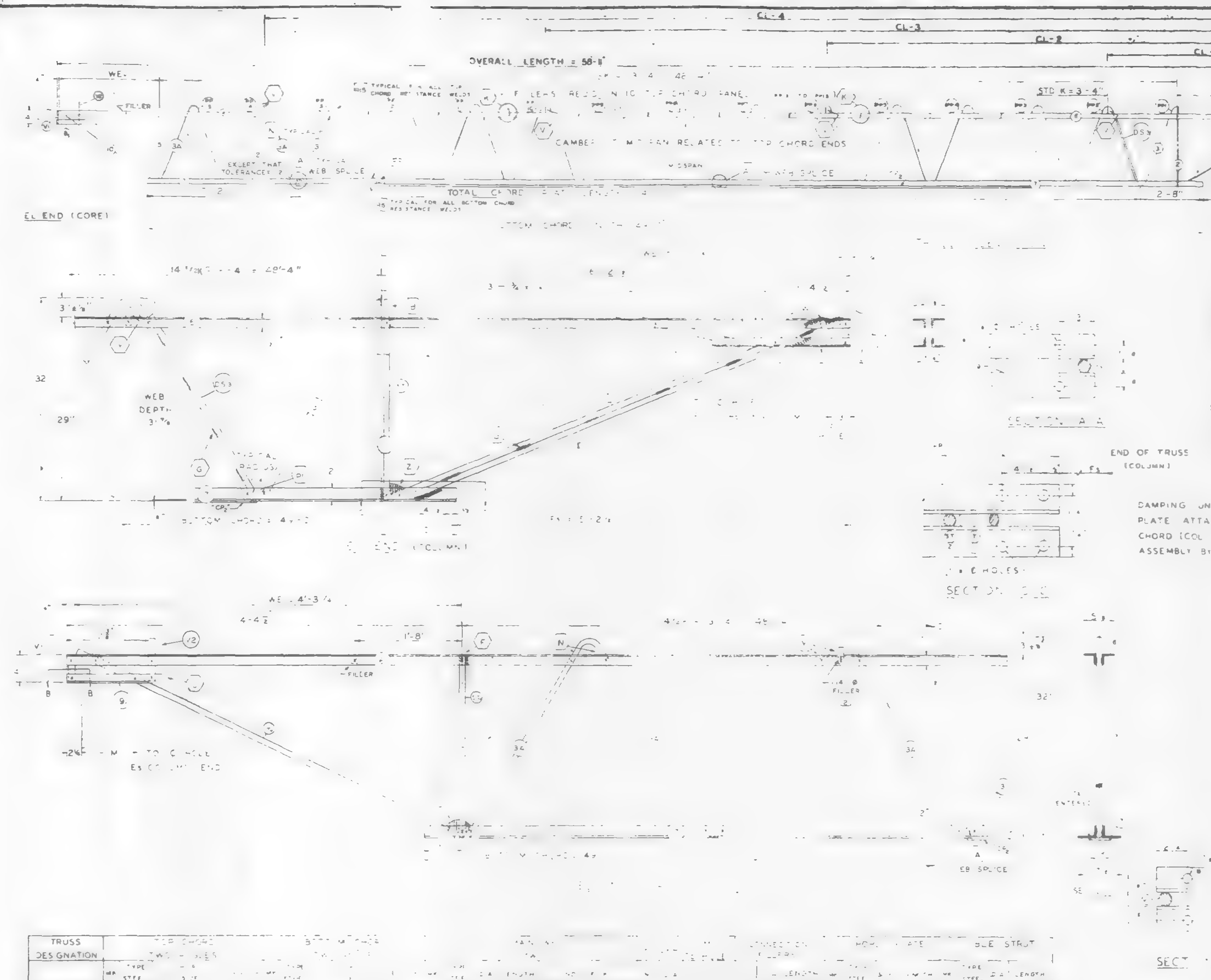
E1 END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER									WEB "WC"					WEB "WT"				
															MK V1			MK V2			MK V4												
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T8G-58'11"	9	A242	2"x1½"x.25	1'-1¼"	4'-3¼"	C	A242	1.14	4'-9½"	5	A242	.4	2'-4¾"	A242	.4	4½	A242	.4	7½"	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
[illegible] CENTER N.Y.C.
FOR
[illegible] OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION [illegible] COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-5 7-AB3-2		PLATE
APPROVED FOR FABRICATION BY JW FOR [illegible] DATE 7/12/68	DRAWN BY [illegible] DATE FEB. 24, 1968		
APPROVED [illegible] BY [illegible]	CHECKED BY J.R. PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD. DEV.	
[illegible]	FABRICATION CONT. NO. 221	SHEET NO. ST20[illegible]	



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL [illegible]	[illegible]	[illegible]
OVERALL LENGTH	58'-11"	[illegible]
WEB DEPTH	31 7/8"	[illegible]

ALL PANEL POINTS RESISTANCE WELDED. ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST28[illegible]

CHORD PLATE DETAILS SHOWN ON SHEET ST280. SEE SHEET ST295 FOR V1, V2, & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00

NO.	DATE	REVISION	BY
2	6-27-68	AS NOTED	T.M.C
1	6-22-68	GENERAL	T.M.C

REF DRWGS

7-AB1-5	4-15-68
7-AB-52	[illegible]-5-68
7-AB1-53	1-3-68
7-AB4 [illegible] & 50.2	10-20-67
7-AB3 2	[illegible]-3-68
7-AB4-50.3	10-20-67

LACLEDE ELECTROCOAT

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL ST. STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST. STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T8G-58"	9	A242	2"x"x"x.25	2'-0"	6"[illegible]"	[illegible]	A36	[illegible]39	6'-3¼"	2	A36	109	2'-7⅞"	A36	109	4⅝"	A36	109	2'-9[illegible]"	DS	242	92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL ST. STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST. STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T8G-58"	9	A242	2½"x½"x.25	1'-1¼"	4'-8¾	10	A242	114	4-9½	5	A242	1	2'-4½"	A242	14	4	A242	4	7	—	—	—	—	—	—	—	—	-	—	—	—	—

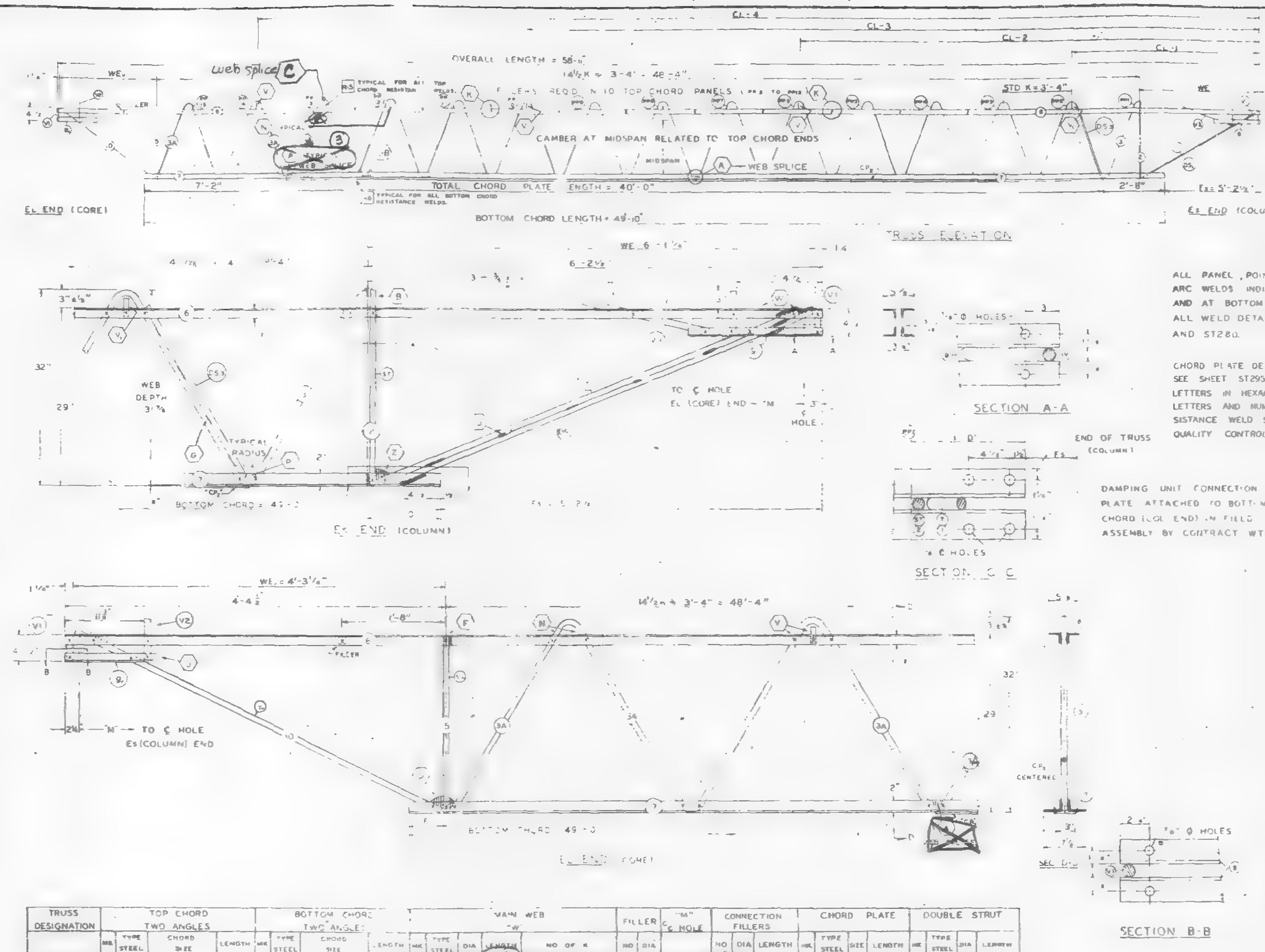
STEEL TRUSS DETAILS
[illegible] TRADE CENTER [illegible] N.Y.C.
FOR
[illegible] OF NEW YORK AUTHORITY

[illegible] TRUSS C32T8G 58'-11" OVERALL

WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-5 7-AB3-2	PLATE
APPROVED FOR FABRICATION FOR POWER BY JW DATE 7/5/68	DRAWN BY [illegible] DATE FEB 24, 1968	
APPROVED FOR FABRICATION FOR [illegible] BY DATE	CHECKED BY J.R PAUL DATE FEB 24, 1968	IN CHARGE OF PROD DEV
[illegible] BY A.E. WEBER	FABRICATION CONT NO WTC 221	SHEET NO ST2[illegible]



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4
OVERALL LENGTH	58'-11"	± 3/8"
WEB DEPTH	3'-7 8"	± 1/4

ALL PANEL POINTS RESISTANCE WELDED. ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ▬
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

NO.	DATE	REVISION	BY
1	6-22-68	GENERAL	T.M.C.

REF DRWGS

7-AB1-5	4-15-68
7-AB-52	2-15-68
7-AB1-53	1-3-68
7-AB4-30 & 30.2	10-20-67
7-AB3-2	1-3-68
7-AB4-30.3	10-20-67

6/25/68 WCB

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" ℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8G-5811	6	A242	2"x1 1/2"x 31	58'-11"	7	A36	3"x2"x 33	49'-10"	3 / 3A	A36 / A242	1.09 / 1.14	77'-10 1/8" / 12'-5 1/2"	12 1/2@3'-4" = 41'-8" / 2 @ 3'-4" = 6'-8"	11	1.09	58'-5 3/4"	3	1.09 / 1.14	3" / 3"	CP	A36	1/4x3	40'-0"	DS	A242	.75	2'-8 1/2"

COLUMN END

Eꜱ END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T8G-5811	9	A242	2"x1 1/2"x 25	2'-0"	6'-4"	1	A36	.09	6'-3 1/4"	2	A36	1.09	2'-7 7/8"	A36	1.09	4 3/8"	A36	1.09	2'-9"	DS	A242	.92	6'-3 1/4"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS CL-1	CL-2	CL-3	CL-4	Eꜱ
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

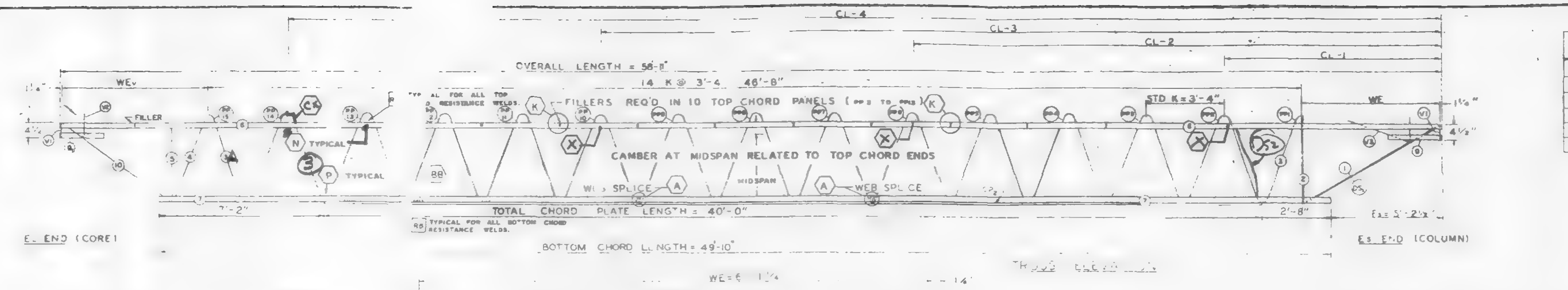
CORE END

Eʟ END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE.	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8G-5811	9	A242	2"x1 1/2"x 25	1'-1 1/4"	4'-3 1/4"	10	A242	1.14	4'-9	5	A242	.4	2'-4 3/8"	A242	.4	4	A242	1.4	7	—	—	—	—	—	—	—	—	—	—	—	—	—

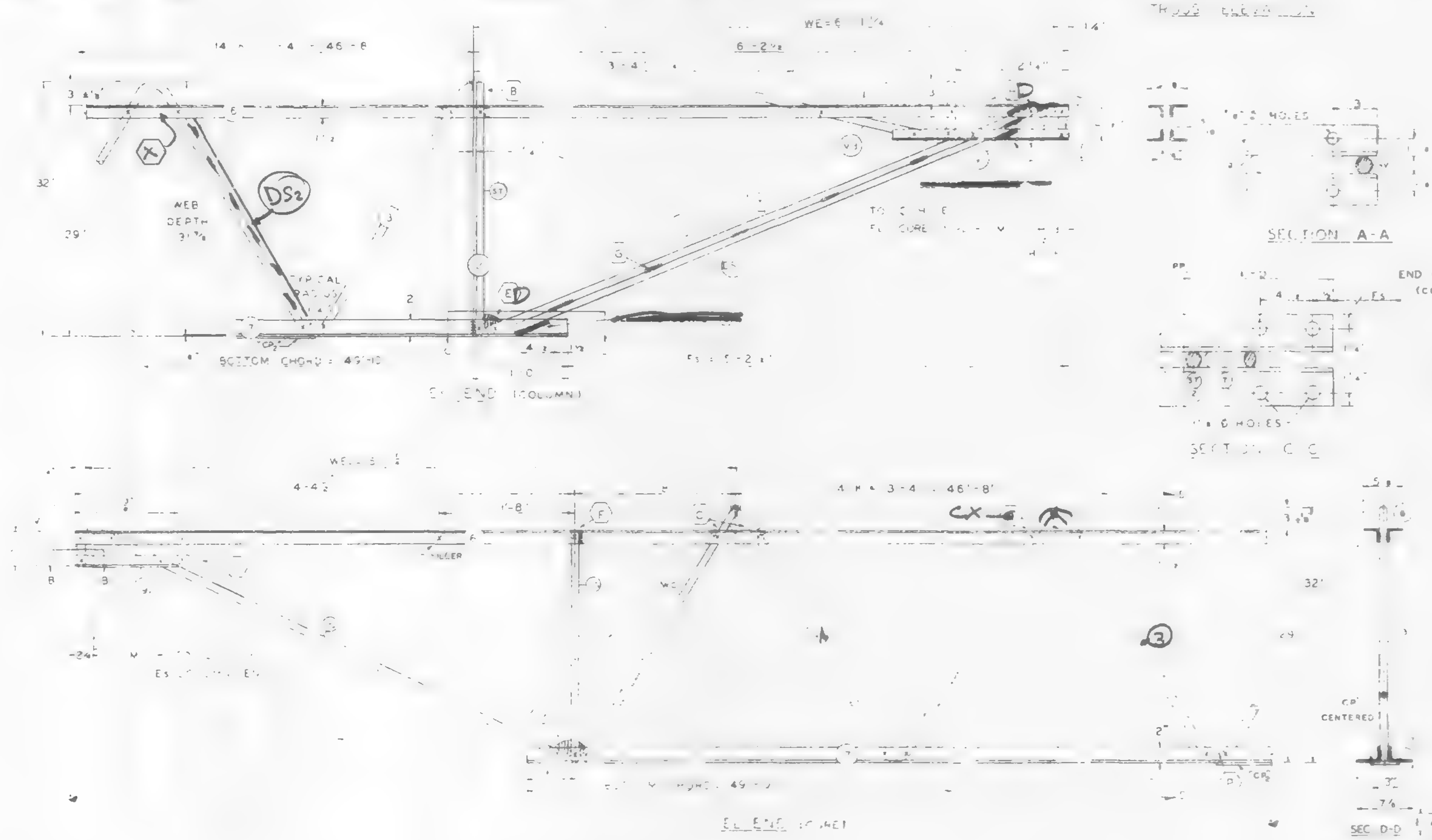
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T8G 58'-11" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS — DESIGN DRAWING NO 7-AB1-5, 7-AB3-2 — PLATE
APPROVED FOR FABRICATION BY — FOR P.O.N.Y.A. — DATE — DRAWN BY — DATE FEB 24, 1968
APPROVED FOR FABRICATION BY — FOR FABRICATOR — DATE — CHECKED BY J.R. PAUL — DATE FEB. 24, 1968 — IN CHARGE OF PROD DEV
DETAILED BY LACLEDE — FABRICATION CONT NO 221 — SHEET NO ST2



FABRICATION REQUIRMENTS	DESIGN		
CAMBER AT MIDSPAN	1"	[illegible]	[illegible]
DESIGN DEPTH	29"	[illegible]	[illegible]
PANEL "K"	3'-4"	[illegible]	[illegible]
OVERALL LENGTH	58' [illegible]		[illegible]
WEB DEPTH	31 7/8"	[illegible]	[illegible]

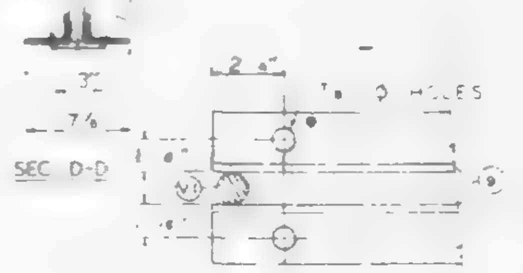


ALL PANEL POINTS RESISTANCE WELDED (X). ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ( ). ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST280.

CHORD PLATE DETAILS SHOWN ON SHEET ST280. SEE SHEET ST295 FOR V1, V2, & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.

6/13/68 was



SECTION B-B

4-15-68

REF DRWGS

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	TRUSS DATA		CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA				MK	TYPE STEEL	SIZE	LENGTH
C32T8G-58'	6	A242	2" [illegible]	58'	[illegible]	A36	3x2x3 [illegible]	49'-10"	3	A36	.109	67'-2½"	14 @ 3'-4" = 46'-8"	11	.109	58'-5¾"			CP2	A36	¼x3	40'-0"

ES END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL ST. STRUT				VERTICAL ST. STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T8G-58'	9	A242	2"x1½"x.25	[illegible]	[illegible]		A36	.09	6'-3⅝"	2	A36	.09	2'-7⅞"	A36	.109	4⅜"	A36	.109	2'-9⅛"	DS1	A242	.75	6'-3⅛"
																					DS2	A242	.75	

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL	CL-2	CL-3	CL-4	FS
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL ST. STRUT				VERTICAL ST. STRUT				END STIFFENER MK V1			END STIFFENER			MK V4			WEB "WC"					WEB "WT"					WEB		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK		DIA.
	C32T8G-58'	9	A242	2"x1½"x.25	[illegible]	[illegible]	10	A242	.14	4'-9⅛"	5	A242	.14	2'-4¾"	A242	.14	4⅛	A24	.14	7⅛	—	—	—	4	A242	1	.14	3'-0½"	—	—	—	—	—	3A	A242	.14

STEEL TRUSS DETAIL

FLOOR TRUSS C32T8G 58'-[illegible]

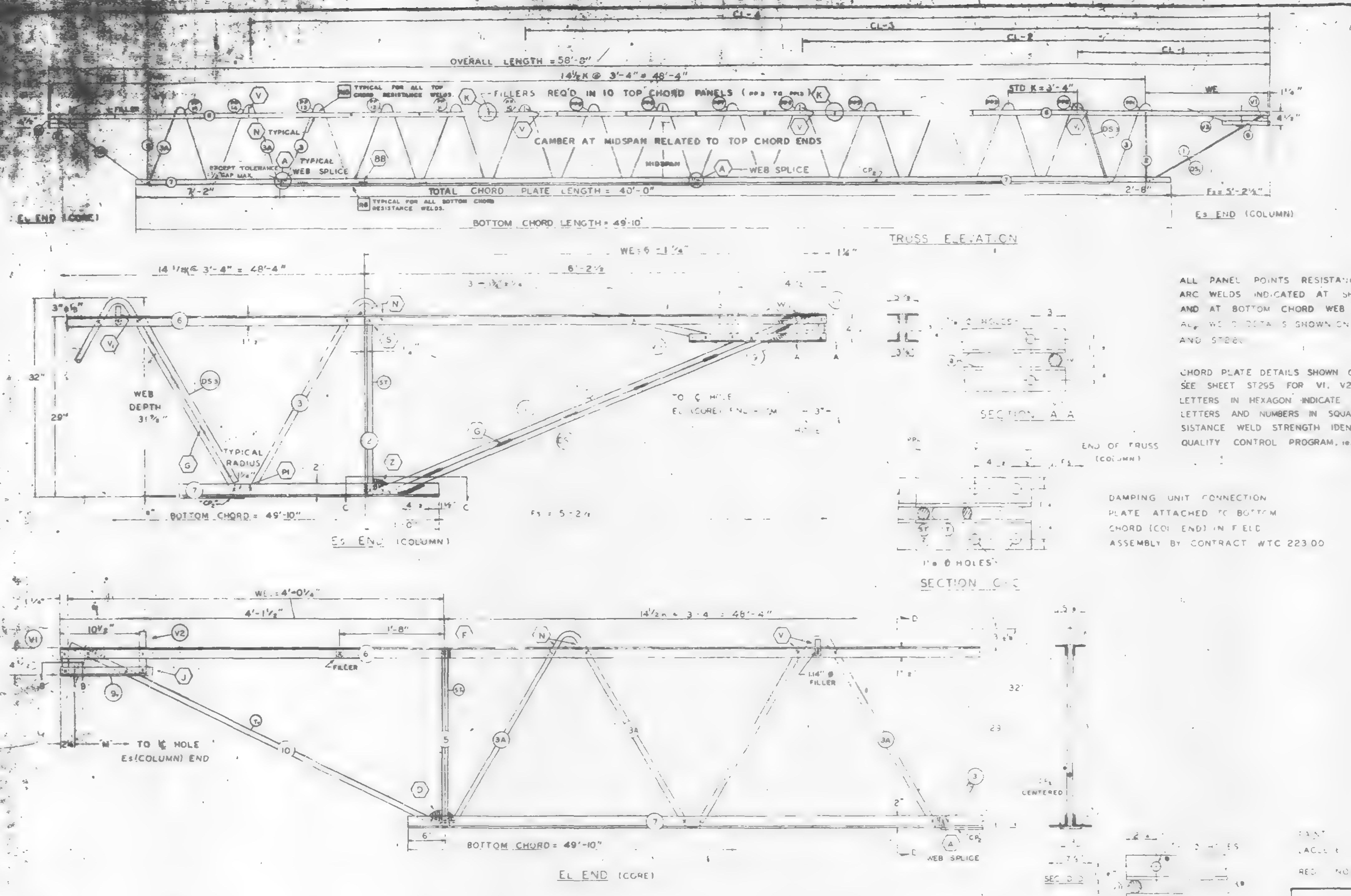
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL [illegible]

FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABR [illegible]

APPROVED FOR FABR [illegible]



ALL PANEL POINTS RESISTANCE WELDED.
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 AND ST293.

CHORD PLATE DETAILS SHOWN ON SHEET ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. R6

END OF TRUSS (COLUMN)

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-8"	± 3/8"
WEB DEPTH	3' 7 ⅛"	± 1/4"

NO.	DATE	REVISION	BY

REF. DRWGS

7-AB1-5	10-15-68
7-AB-52	2-15-68
7-AB-53	7-22-68
7-AB4	8-1-68
7-AB1-2	3-3-68
7-AB4-50.5	10-28-67

PAINT
LACQUER ELECTRO COAT
REQ. NO.

TRUSS DESIGNATION		TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	M ℄ HOLE	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C321	588	6	A242	2"×1½"×3½	58'-8"	7	A36	3"×2"×33	49'-0"	3 / 3A	A36 / A242	1.09 / 1.14	78'-3¾ / 12'-5½	12½@3'-4" = 41'-8" / 2@3'-4 = 6'-8"	11	1.09	58'-2¾"	3 / 1	1.09 / 1.14	3" / 3"	CP2	A36	¼×3	40'-0"	DS3	A242	.75	2'-6¾"

Es COLUMN END	TRUSS DESIGNATION		BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C321	588	9	A242	2"×1½"×29	2'-3"	6'-1¼"	1	A36	[illegible]	[illegible]	2	A36	1.09	2'-4⅝"	A36	1.09	4⅜"	A36	1.09	2'-9"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2½"	49'-6⅛"	-2½"

TRUSS DESIGNATION		BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C321	588	8	A242	2"×1½"×25	1'-0¼"	4'-0¼	10	A242	1.14	4'-7"	5	A242	1.14	2'-4⅛"	A242	1.14	4⅞"	A242	1.14	7⅞"	—	—	—	—	—	—	—	—	—	—	—	—	—

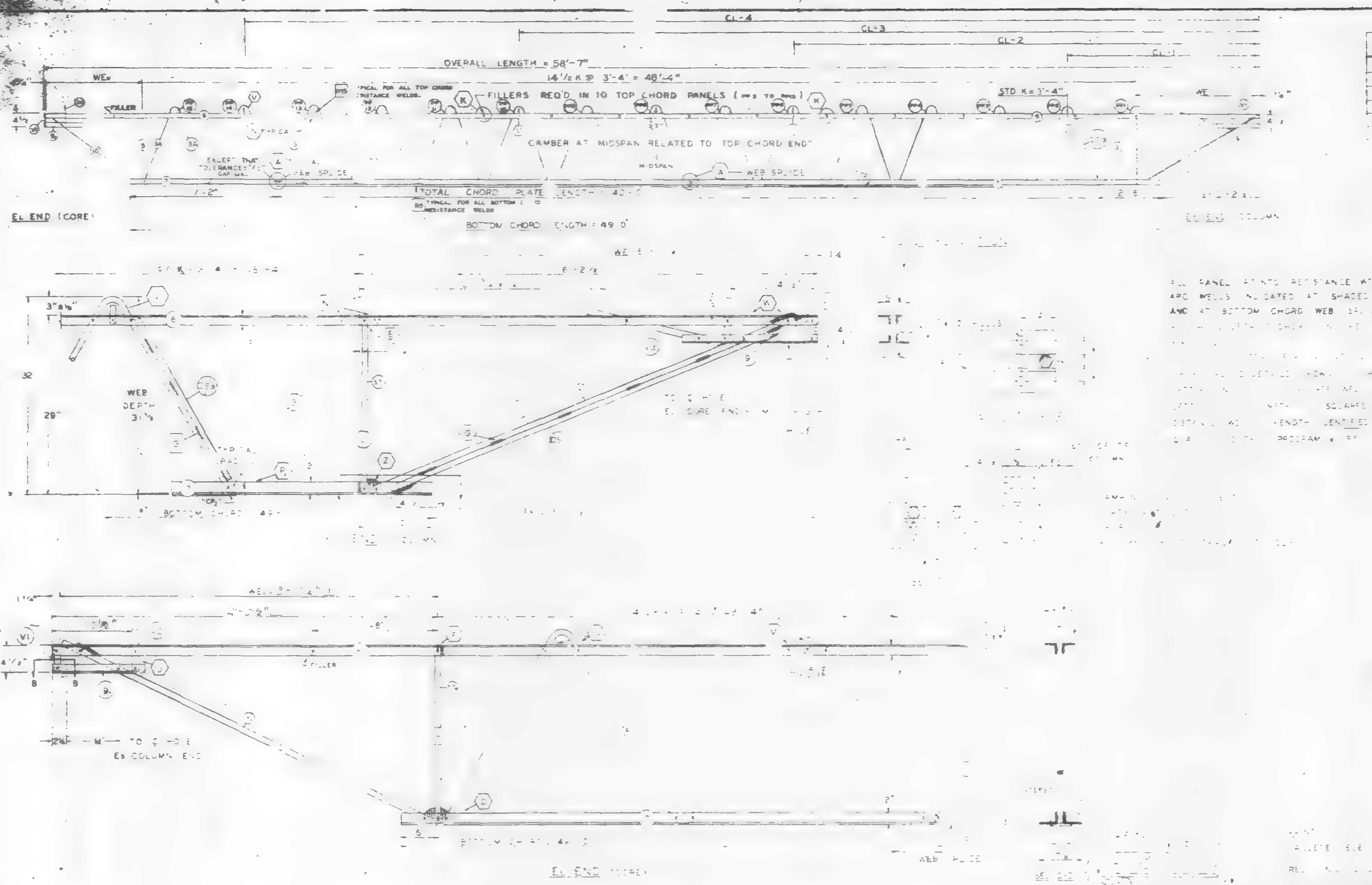
STEEL TRUSS DETAILS FOR WORLD TRADE CENTER N.Y.C. FOR PORT OF NEW YORK AUTHORITY

TRUSS C32T8H 58'-8" OVERALL

WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON ILLINOIS	DESIGN DRAWING NO 7-AB1-5 7-AB3-2 PLATE
APPROVED FOR FABRICATION FOR ROBE James White DATE 4/25/69	DRAWN BY [illegible] DATE APRIL 15, 1969
APPROVED FOR FABRICATION BY FOR FISH DATE	CHECKED BY T.M.CHURA DATE APRIL 15, 1969 / IN CHARGE OF PROD DEV
DETAILED BY [illegible]	FABRICATION CONT NO 221 / SHEET NO ST208H



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 2"	[illegible]
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	1/8"
OVERALL LENGTH	58'-	± 3/8"
WEB	3 7 8	± 1/4"

		ES DIMENSION	
NO	DATE	REVISION	BY

REF DRWGS

AB-5	10-15-68
T-AB-52	2-15-68
T-AB-53	7-29-68
T-AB4-50	8-1-68
T-AB3-2	1-3-68
AB4-50	10-20-67

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER @ CL HOLE		CONNECTION FILLERS			CHORD PLATE				DOUBLE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T8 - 587	6	A242	2"x1"x 3	58'-7"		A36	3 x 2" x 35	49'-10"	3 / 3	A36 / A242	[illegible]	[illegible]	[illegible]	1	1.09	[illegible]	[illegible]	[illegible]	C5	A36	[illegible]	40'-0"	[illegible]	[illegible]	[illegible]	[illegible]

COLUMN END

ES END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T8 - 587	9	A242	2"x1"x.25	2'-3"	6'-1 1/4"		A36	1.09	6'-3 1/8"	2	A36	1.09	2'-4 7/8"	A36	1.09	4 7/8"	A	[illegible]	2'-8 1/8"	DS	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	ES
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			MK V4			WEB "WC"					WEB "WT"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH	⚠	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	[illegible] - 587	[illegible]	[illegible]	[illegible] .25	1'-0 1/2"	[illegible]	10	A242	1.14	4'-6 1/8"	5	A242	1.14	2'-4 1/2"	A242	1.14	4 1/8"	A242	1.14	7 1/8"	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS

58'-7" OVERALL

TOWER A-B

FABRICATED BY LACLEDE STEEL COMPANY

AT MADISON

DESIGN DRAWING NO 7 AB-5 2-AB3-2 PLATE

APPROVED FOR FABRICATION DATE

DRAWN BY

DATE JAN 7, 1969

APPROVED FOR FABRICATION DATE FOR FABRICATOR

CHECKED BY T.M.CHUBA

DATE JAN 7, 1969

IN CHARGE OF PROD DEV

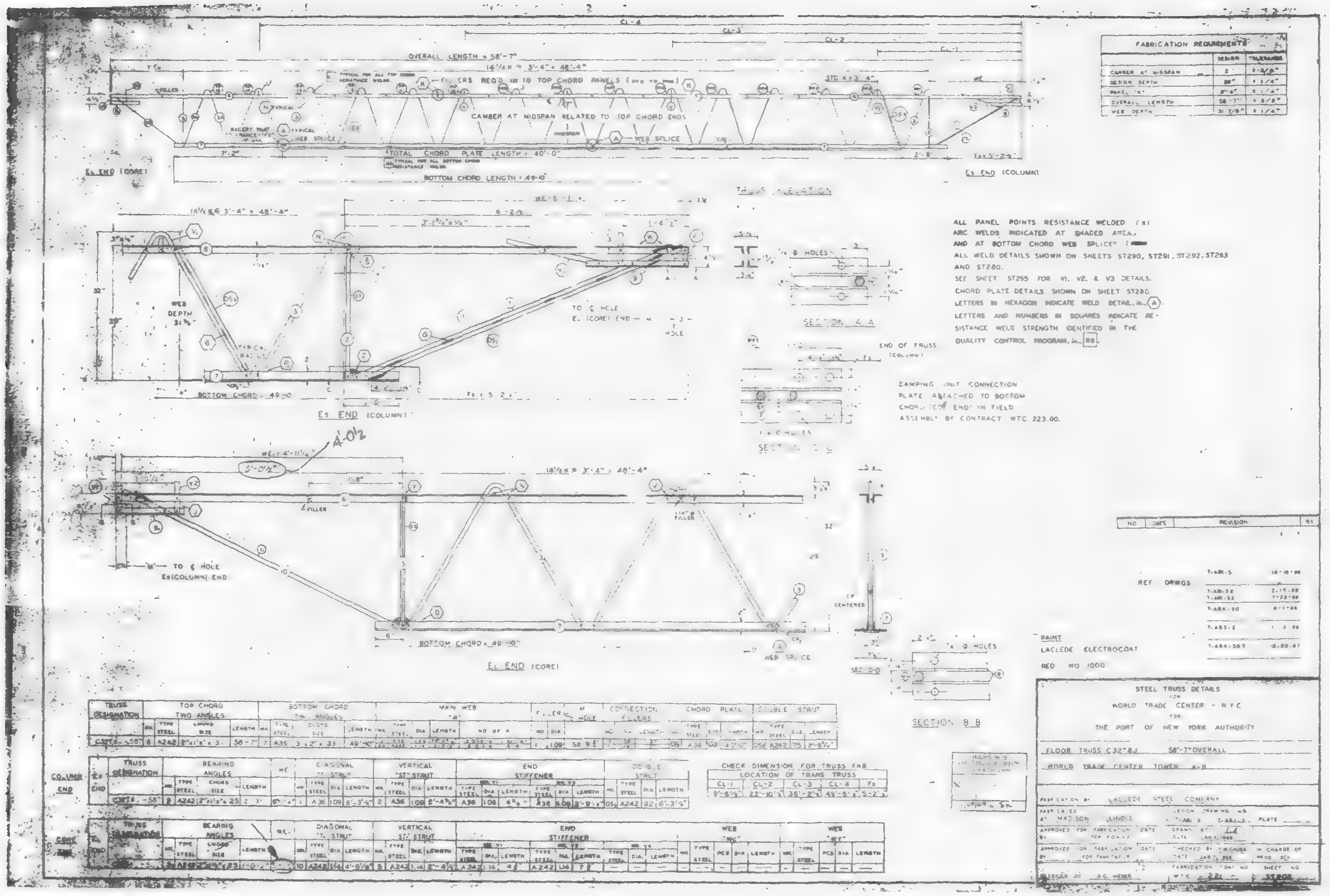
LACLEDE STEEL CO

DETAILED BY A.C. WEBER

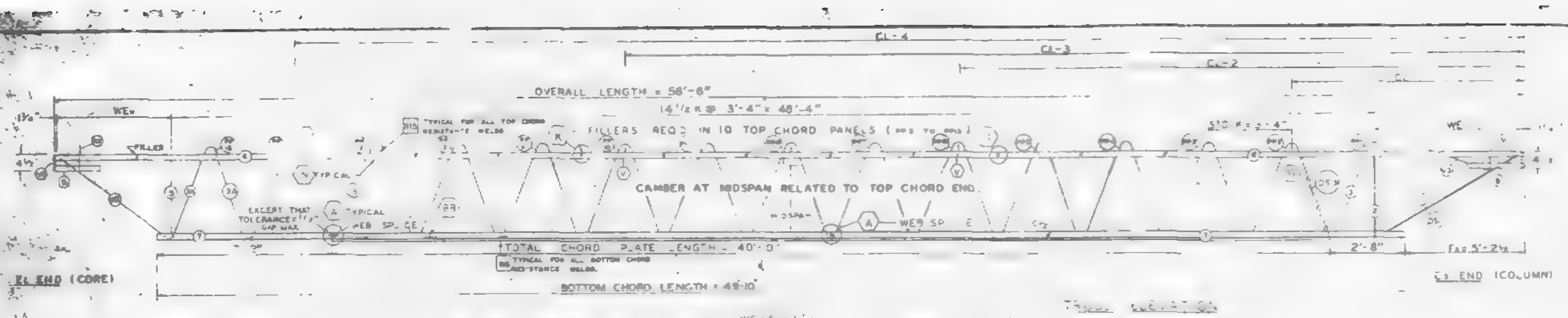
FABRICATION CONT NO

WTC 221

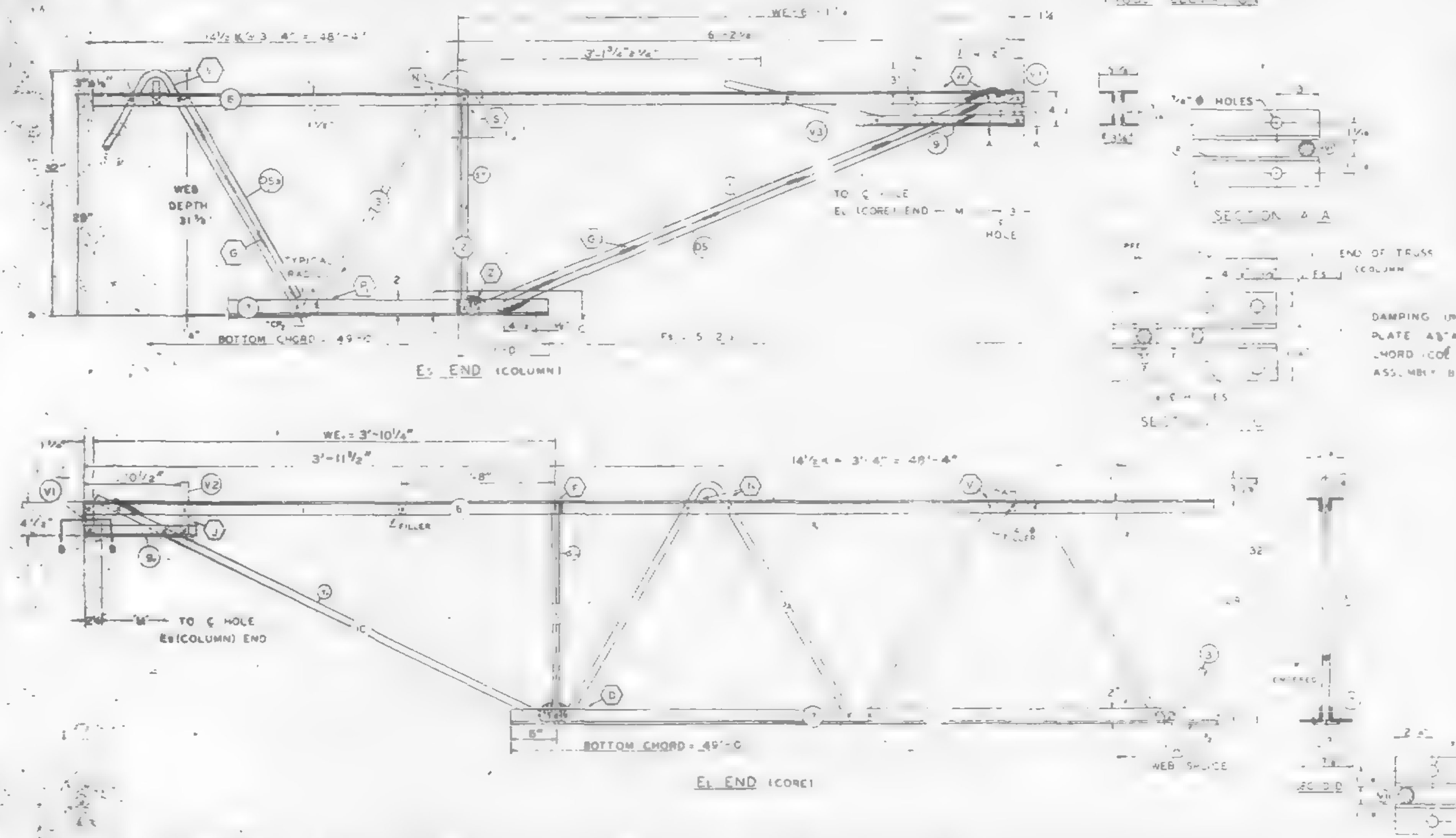
SHEET



OVERALL LENGTH = 58'-7"
CAMBER AT MIDSPAN RELATED TO TOP CHORD ENDS
TOTAL CHORD PLATE LENGTH = 40'-0"
BOTTOM CHORD LENGTH = 49'-10"
WEB SPLICE
Es END (CORE)
Es END (COLUMN)
TRUSS ELEVATION
FABRICATION REQUIREMENTS
ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293
AND ST280.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
CHORD PLATE DETAILS SHOWN ON SHEET ST280.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, ie., R6.
SECTION A-A
DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (CORE END) IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00.
BOTTOM CHORD = 49'-10"
EL END (CORE)
SECTION B-B
REF DRWGS
PAINT
LACLEDE ELECTROCOAT
RED NO 1000
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - NYC
FOR
THE PORT OF NEW YORK AUTHORITY
FLOOR TRUSS C32"8J 58'-7" OVERALL
WORLD TRADE CENTER TOWER A-B
FABRICATION BY LACLEDE STEEL COMPANY
CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL	3'-4"	± 1/4"
OVERALL LENGTH	58'-6"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICE
ALL WELD DETAILS SHOWN ON SHEET ST290, ST29... ST293
AND ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
CHORD PLATE DETAILS SHOWN ON SHEET ST280
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R6]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (CORE END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00

DATE	REVISION	BY

REF DRWGS

7-ABI-5	[illegible]
7-ABI-52	[illegible]
7-ABI-53	7-22-88
7-AB4-90	[illegible]
7-AB3-2	[illegible]
7-AB4-305	10-30-67

PAINT
LACLEDE ELECTROCOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	"M" HOLE	CONNECTION FILLERS			CHORD PLATE			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF [illegible]	NO DIA		NO	DIA	LENGTH	MK	TYPE STEEL	WID, THICK	MK	TYPE STEEL	LENGTH
[illegible]-586	B	A242	[illegible]	58'-6"	[illegible]	A36	[illegible]	49'-10	[illegible]	A242	[illegible]	[illegible]	[illegible]	[illegible] 1.09	58'-0"	[illegible]	.09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

COLUMN END

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8-586	B	A242	2"x1 1/2"x.25	2'-3"	6'-1/4"	[illegible]	A36	1.09	6'-3 1/8"	2	A36	1.09	2'-4 7/8"	A36	1.09	4 7/8"	A36	1.09	2'-9"	DS	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL	CL-2	CL-3	CL-4	Fs
9'-8"	22'-10"	36'-2"	49'-6"	55'-2"

CORE END

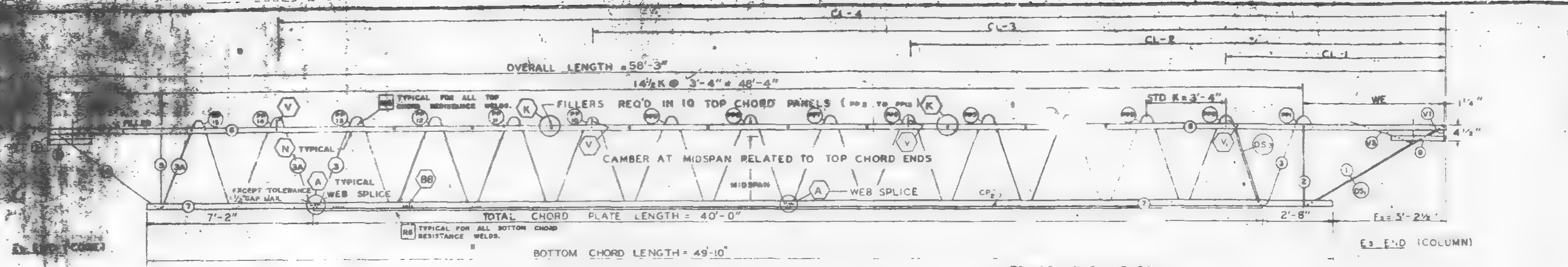
TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "WC"					WEB "WT"				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
[illegible]-586	[illegible]	A242	[illegible]	1'-0 1/2"	3'-10 1/4"	10	A242	1.14	4'-5 1/8"	5	A242	1.14	2'-4 1/8"	A242	1.14	4"	A242	1.14	7"	—	—	—		—		—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
[illegible] YORK AUTHORITY

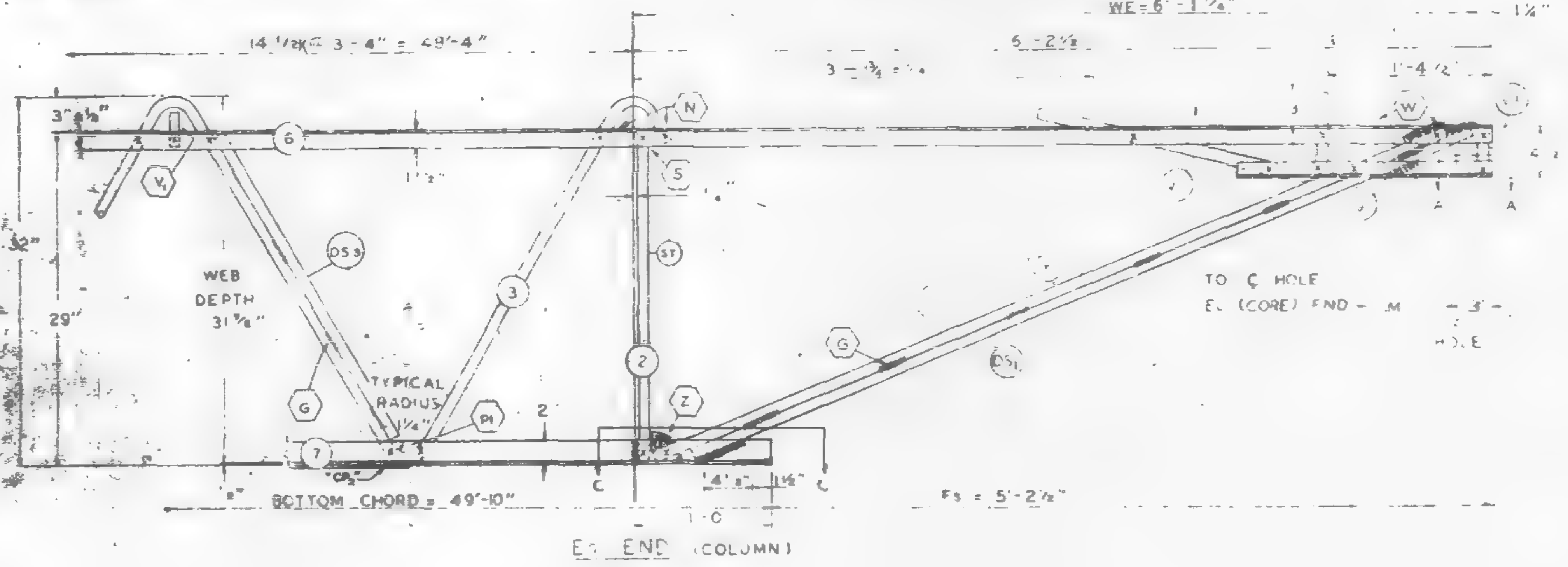
WORLD TRADE CENTER TOWER A, B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED: A. MADISON
DESIGN DRAWING NO: 7-AB-5, 7-AB3-2 PLATE
APPROVED FOR FABRICATION: DATE 1/29/69
DRAWN BY: [illegible] DATE: JAN 7, 1969
APPROVED FOR FABRICATION DATE: BY: FOR FABRICATION
CHECKED BY: T.N. CHURA DATE: JAN 7, 1969
IN CHARGE OF: PROD. DEV.
DETAILED BY: A. [illegible]
FABRICATION CONT NO: WTC 221
SHEET NO: ST[illegible]



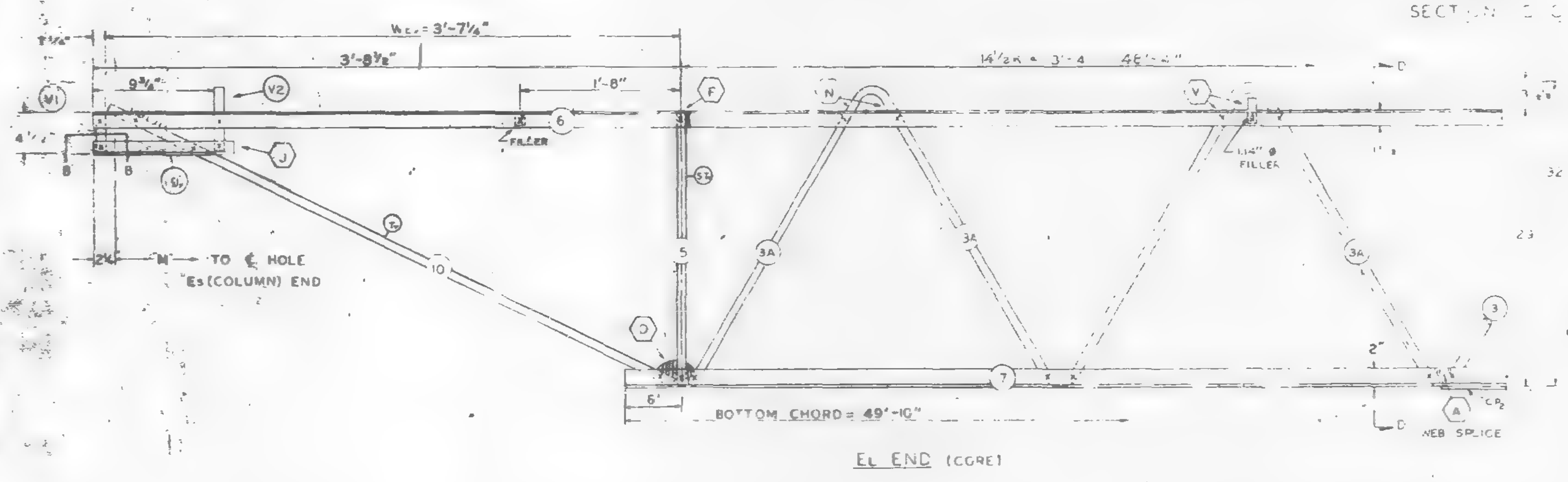
FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-3"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, AND ST28

CHORD PLATE DETAILS SHOWN ON SHEET ST28C
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00



NO.	DATE	REVISION	BY

REF. DRWGS

7-AB1-1	10-15-68
7-AB-12	2-15-68
7-AB-53	7-22-68
7-AB4	8-1-68
7-AB3-2	1-3-68
7-AB4-505	10-20-67

PAINT
LACLEDE ... COAT
RED NO. 000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8M 583	6	A242	2"x1½"x 3[illegible]	58'-3"	7	A36	3"x2"x 33	49'-10"	3 / 3A	A36 / A242	1.09 / 1.14	78'-3¾" / 12'-5½"	12½ @ 3'-4" = 4[illegible] / 2 @ 3'-4 = 6'-8"	11	1.09	57'-9¾"	3 / 1	1.09 / 1.14	3" / 3"	CP2	A36	¼x3	40'-0"	DS3	A242	.75	2'-6¾"

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	32T8M 583	9	A242	2"x1½"x 23	2'-3"	6'-1¼"	1	A36	1.09	6'-3¼"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅝"	A36	1.09	2'-9[illegible]"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

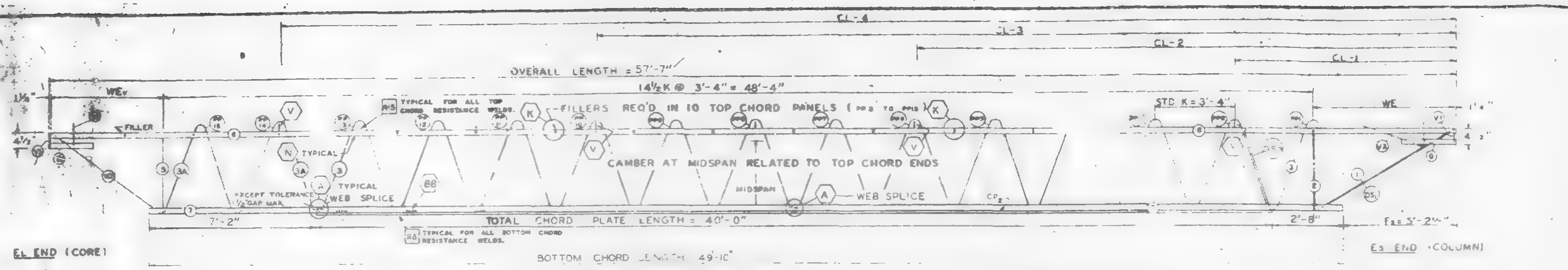
TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			MK V4			WEB "WC"					WEB "WT"				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
C32T8M 583	[illegible]	A242	[illegible]	1'-0"	3'-7½"	[illegible]	A242	1.14	4'-2¾"	5	A242	1.14	2'-4½"	A242	1.14	[illegible]	A242	[illegible]	[illegible]													

STEEL TRUSS DETAILS
FOR
... TRADE CENTER ... N.Y.C.
... OF NEW YORK AUTHORITY

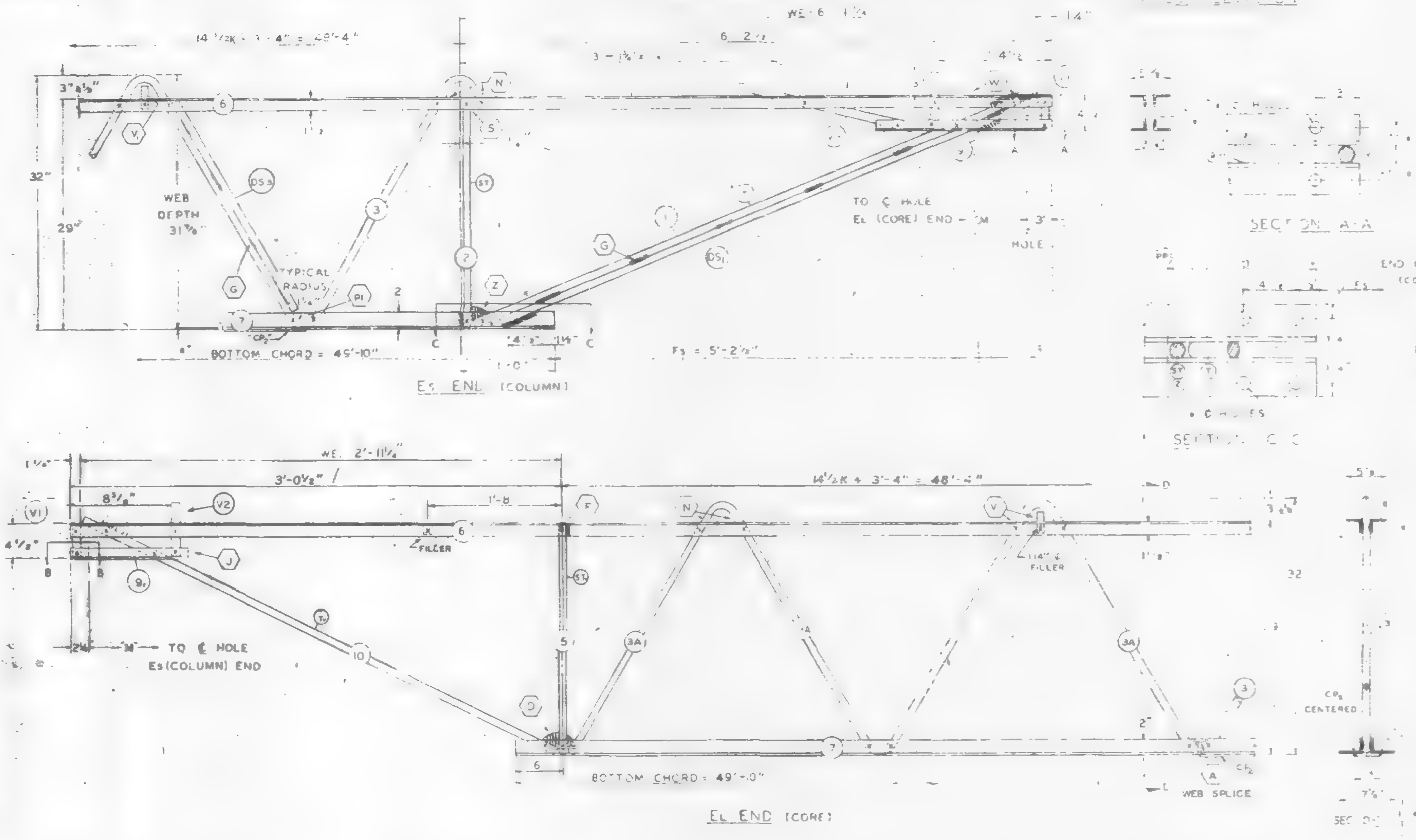
FLOOR TRUSS C32T8M 58'-3" OVERALL
WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-5 7-AB3-2.	PLATE
APPROVED FOR FABRICATION FOR PONYA James White	DATE 4/15/69	DRAWN BY [illegible] DATE APRIL 15, 1969	
APPROVED FOR FABRICATION BY ... FOR FABRICATOR	DATE	CHECKED BY TM CHURA DATE APRIL 15, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. W... 221	SHEET ST...



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL ...	3'-4"	± 1/8"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31⅞"	± 1/4



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD-WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292,
AND ST28

CHORD PLATE DETAILS SHOWN ON SHEET ST280
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R6.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00

NO	DATE	REVISION	BY

REF DRWGS

7-AB1-5	10-15-68
7-AB-52	7-15-68
7-AB1-53	7-22-68
7-AB4	8-1-68
7-AB1 2	7-3-68
7-AB4-503	10-28 67

LACLEDE ELECTRICOAT
RED NO 1000

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLE	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T8P 77	6	A242	2"x1½"x ...	57'-7"	7	A36	3"x2"x33	49'-10"	3 / 3A	A36 / A242	1.09 / 1.14	8'-3¾ / 12'-5½"	12½ @ 3'-4" = 41'-8" / 2 @ 3'-4 = 6'-8"	11	1.09	57'-1¾"	3 / 1	1.09 / 1.14	3" / 3"	CP₂	A36	¼x3	40'-0"	DS₃	A242	.75	2'-6¾"

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T8P 577	9	A242	2"x1½"x.25	2'-3"	6'-1¼"	1	A36	1.09	6'-3⅛"	2	A36	1.09	2'-4⅝"	A36	1.09	4⅝"	A36	1.09	2'-9½"	DS₁	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5' 2½"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					WEB "Wy"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T8P 577	8	A242	2"x1½"x.25	10¼"	4'-7"	10	A242	1.14	3'-8½"	5	A242	1.14	2'-4½"	A242	1.14	4"	A242	1.14	7"	—	—	—	—	—	—	—	—	—	—	—	—	—

TEE TRUSS DETAILS

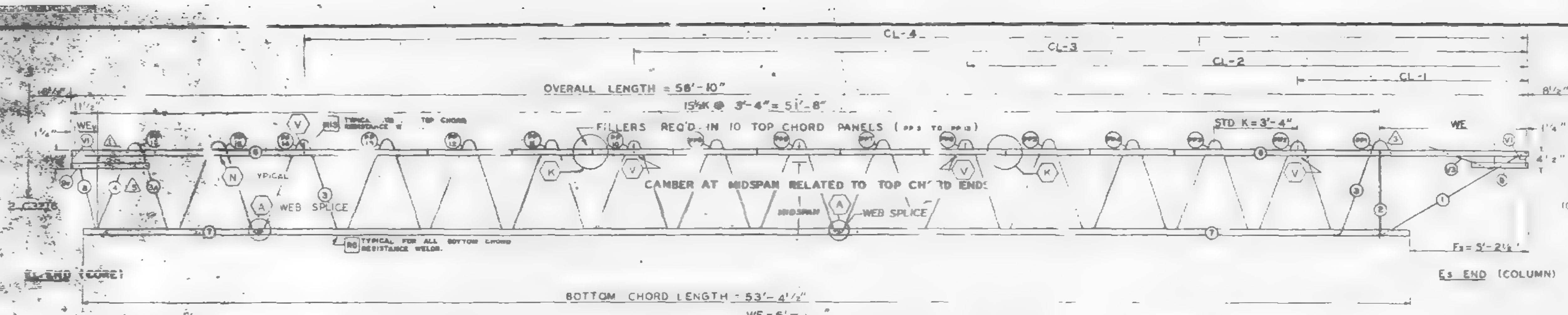
57'-7" OVERALL

WORLD TRADE CENTER TOWER A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-5 7-AB3-2.	PLATE
APPROVED FOR FABRICATION FOR PONYA James White	DATE 4/25/69	DRAWN BY DATE APRIL 15, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 15, 1969	IN CHARGE OF PROD DEV
		FABRICATION CONT NO 221	SHEET NO ST208P

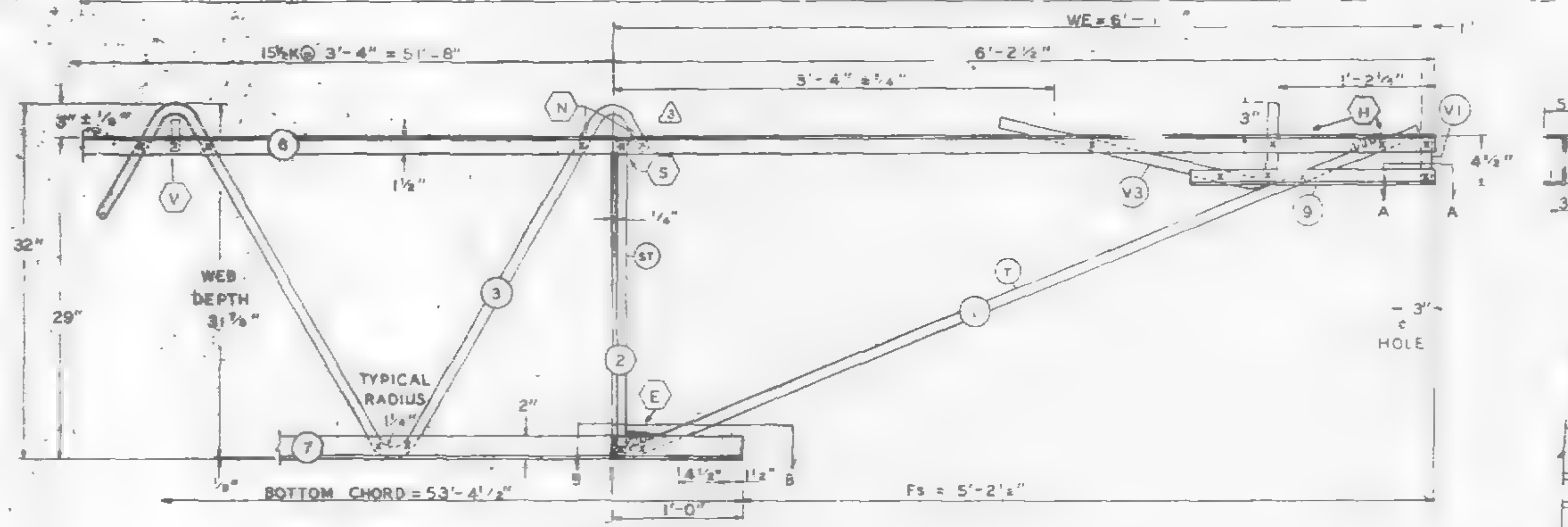
OVERALL LENGTH = 58'-10"



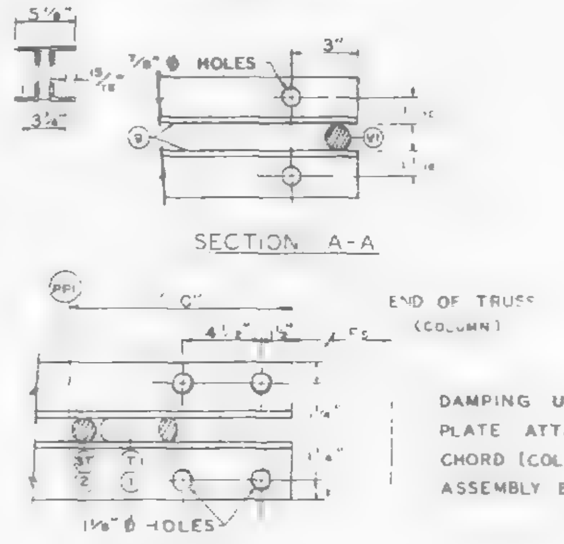
TRUSS ELEVATION

FABRICATIO[illegible] [illegible]RENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	[illegible]
DESIGN DEPTH	29"	[illegible] ¼"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-[illegible]	± 3/8"
WEB DEPTH	3[illegible]	[illegible]

ALL PANEL POINTS RESISTANCE WELDED (K)
ARC WELDS INDICAT[illegible] [illegible] SHADED AREAS
AND AT BOTTOM [illegible]HORD WEB SPLICES (▬▬)
ALL WELD DETAILS [illegible], ON SHEETS ST290, ST291
AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., ⟨A⟩.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].



Es END (COLUMN)

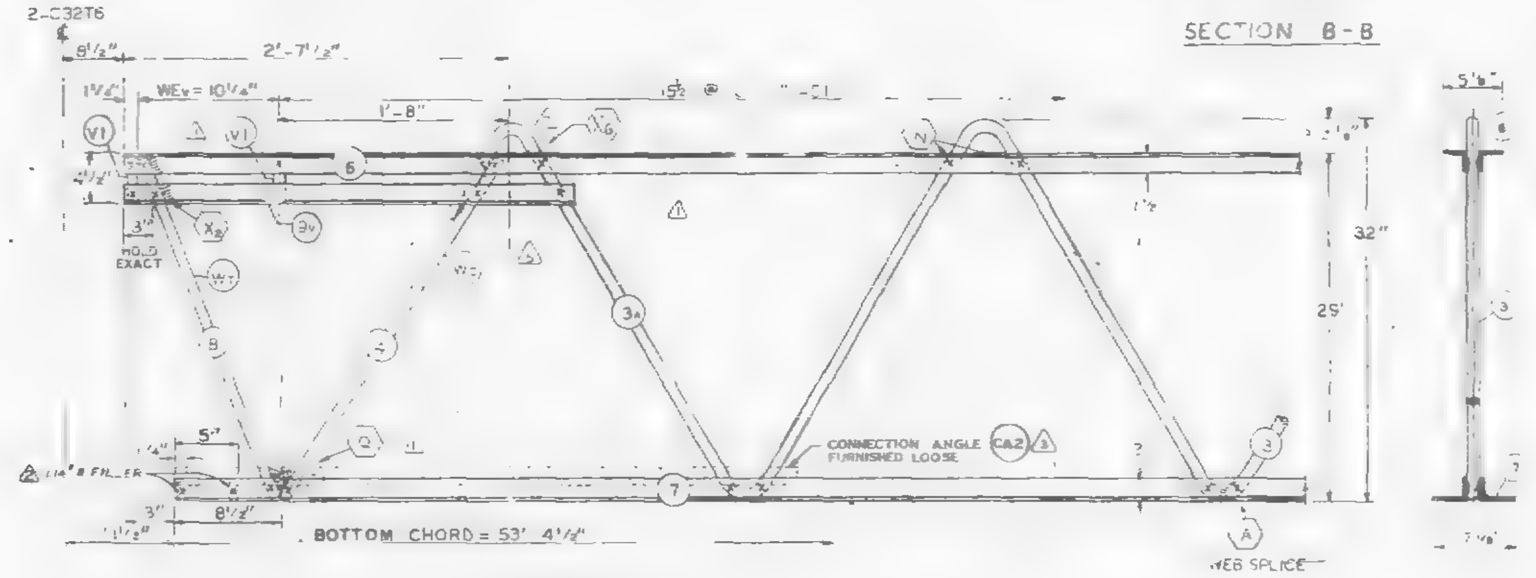


SECTION A-A

END OF TRUSS (COLUMN)

SECTION B-B

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONT[illegible]



Ei END (CORE)

NO	DATE	REVISION	
[illegible]	[illegible]	AS NOTED	
6	[illegible]-8-70	AS NOTED	
5	5-[illegible]-70	AS NOTED	G.C.G.
4	12-9-68	MAIN WEB LENGTH	G.C.
3	11-9-68	AS NOTED	G.[illegible]
2	8-[illegible]-68	BOTTOM CHORD FILLER	T.M.
1	7-[illegible]-68	AS NOTED	T.M.

3 REF. DWG.

7-AB1-7	7-22-68
7-AB1-52	2-[illegible]5-[illegible]
7-AB4-50	8-[illegible]-68
7-AB3-2	[illegible]-3-68
7-AB4-50.5	10-20-[illegible]
7-AB[illegible]	10-15-6[illegible]

PAINT
LACLEDE ELECTROCOAT
RED NO. [illegible]000[illegible]

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLER			CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO	DIA.		NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T9-5810	6	A242	2"x1½"x.31"	58'-10"	7	A36	3"x2"x.33"	53'-4½"	3 / 3A	A36 / A242	1.09 / 1.14	56'-6½" / [illegible]	13½ 2K @ 3'-4" = 45'-0" / 1½ 2K @ 3'-4" = 5'-0"	13 / 2	1.09 / 1.14	—	4	1.09	3"	—	—	—	—

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T9-5810	9	A242	2"x1½"x.25	1'-10"	6'-1¼"	1	A242	1.14"	6'-5"	2	A36	1.09"	2'-4⅝"	A242	1.14"	4⅝"	A242	1.14"	2'-9½"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10⅛"	36'-2½"	49'-6½"	5'-2¼

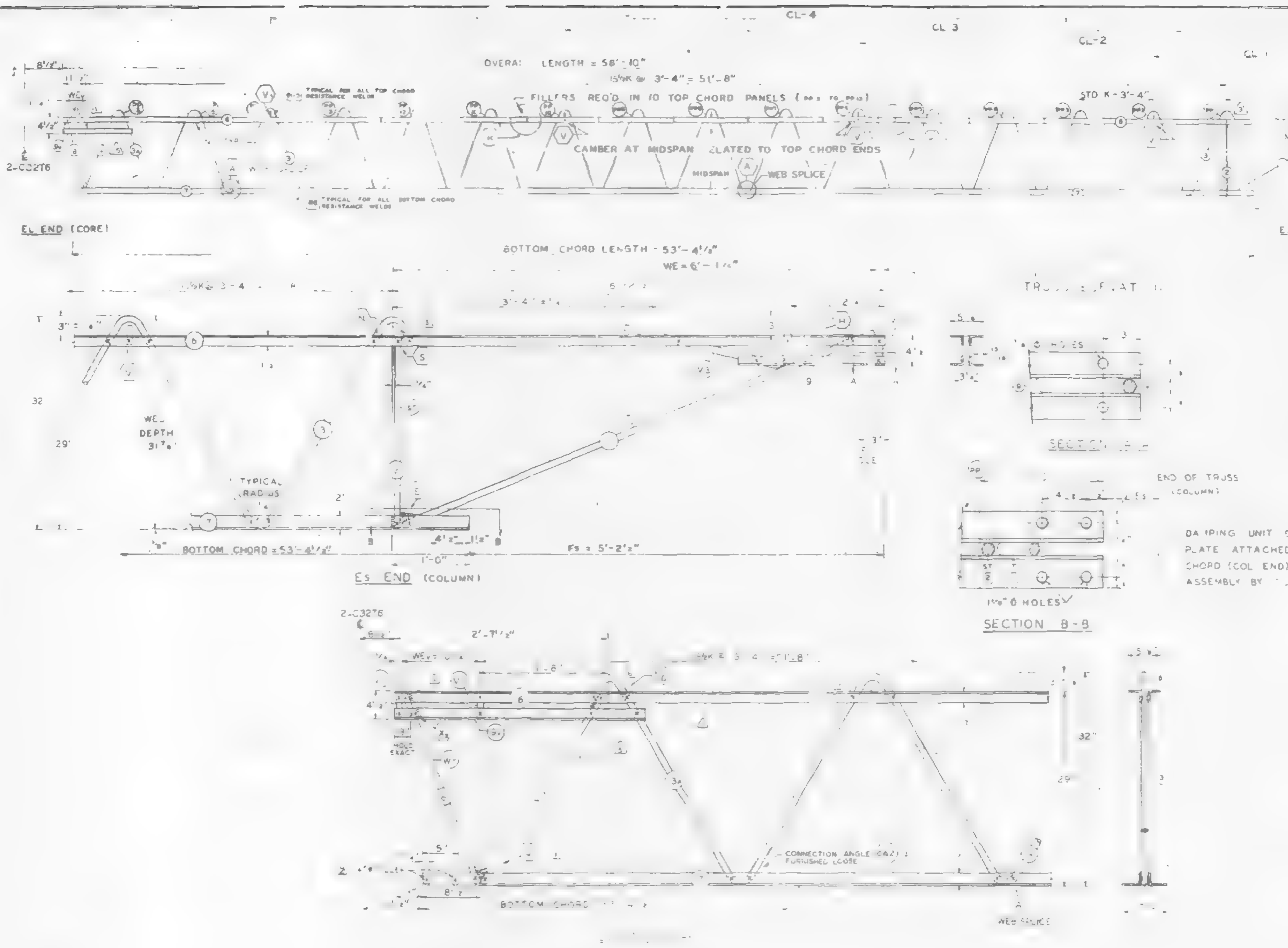
CORE END

Ei END	TRUSS DESIGNATION	BEARING ANGLES				WEv	VERTICAL "ST1" STRUT				VERTICAL "ST" STRUT				END STIFFENER			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "WC"					WEB "WT"					CONNECTION ANGLES (FURNISHED LOOSE)				
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	PCS	DIA.	LENGTH	MK.	TYPE STEEL	PCS	DIA.	LENGTH	NO.	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
	[illegible]-5810	9	A242	2"x[illegible]x.31"	3'-2"	10¼"	—	—	—	—	—	—	—	—	A242	1.14"	4⅝"	—	—	—	—	—	—	4	A242	1	1.14	2'-0"	8	A242	1	1.14"	2'-5¾"	2	CA3	A242	2"x1½"x37"	4'-4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T9 - 58'-10" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-7, 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE [illegible]	DRAWN BY [illegible] DATE MAY 27, 1968
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE	CHECKED BY: [illegible] DATE MAY [illegible] 1968 IN CHARGE OF [illegible]
DETAILED BY: A.C. [illegible]	FABRICA[illegible] W.T.C. [illegible] SHEET NO. [illegible]



FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	3/8"
DESIGN DEPTH	29"	[illegible] 4"
PANEL "K"	3'-	± 1/4"
OVERALL LENGTH	58'	[illegible] 8"
WEB DEPTH	[illegible]	[illegible]

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED
AND AT BOTTOM CHORD WEB SPLICE
ALL [illegible]
[illegible]
SEE ST295 FOR V1 & V2 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R61.

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" ℄ HOLES	CONNECTION FILLER NO.	DIA.	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T9 5810	6	A242	2 [illegible]	58'-0"	7	A36	3 × 2 × 33	53'-4½"	3 / 33	A36 / A242	1.09 / 1.14	[illegible]	13/2K × 3'-4" = 45'-0" / 11/2K × 3'-4" = 5'-0"	12 / 2	1.09 / 1.14	—	4	1.09	3"	—	—	—	—

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T9 5810	9	A242	2"×1½"×25"	1'-10"	6'-1¼"	1	A242	[illegible]	6'-5"	2	A36	.99"	2'-4⅞"	A242	1.14	4⅞"	A242	[illegible]	2'-9½"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2¼"

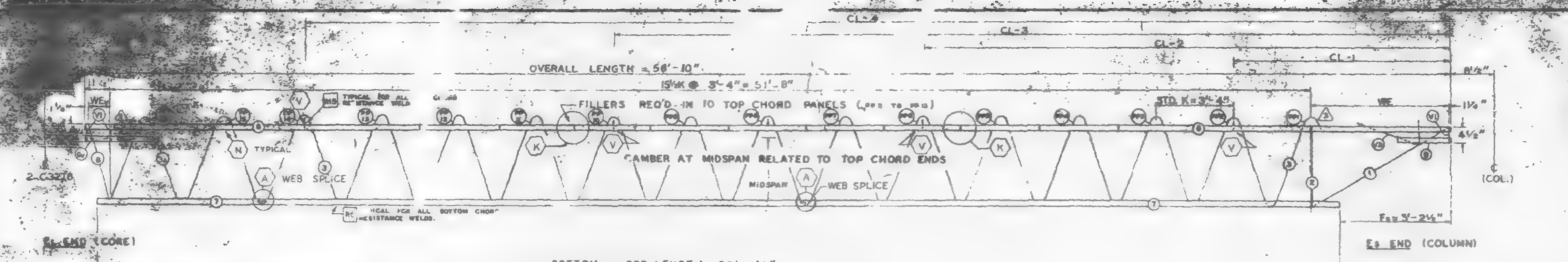
CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	V2 TYPE STEEL	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH	CONNECTION ANGLES (FURNISHED LOOSE) NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
C32T9 5810	9	A242	2"×1½"×[illegible]	3'-2	10¼"	—	—	—	—	—	—	—	—	A242	1.14"	4⅞"	—	—	—	—	—	4	A242	1	1.14	2'-[illegible]"	8	A242	1	1.14"	2'-5¾"	2	CA3	A242	2"×1½"×37"	4'-4"

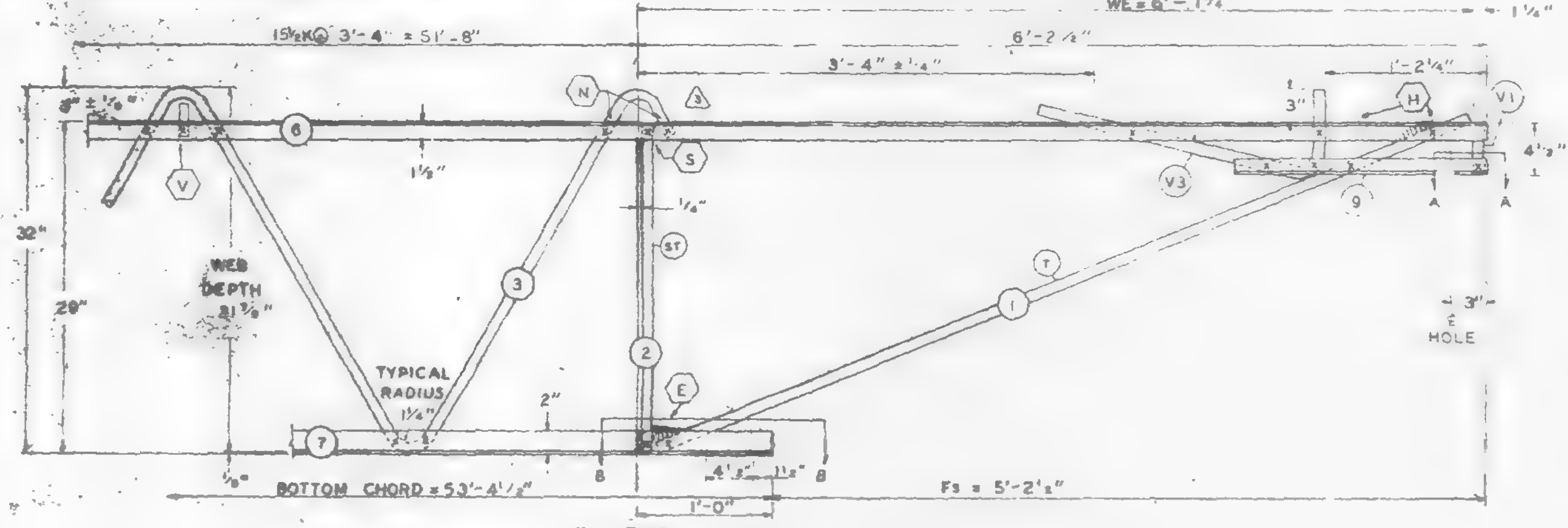
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T[illegible] 58'-10" OVERALL
WORLD TRADE CENTER TOWERS A-B

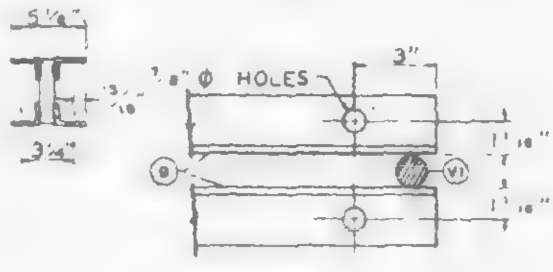
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED [illegible] MADISON, ILLINOIS
DESIGN DRAWING NO 7-A81-7 7-A83-2 PLATE
APPROVED FOR FABRICATION BY ___ FOR PONYA DATE 7 [illegible]
DRAWN BY [illegible] DATE MAY 27, 1968
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR DATE ___
CHECKED BY J.S. PAUL DATE MAY 27, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER
FABRICATION CONT. NO. WTC 221 [illegible]
SHEET NO ST209



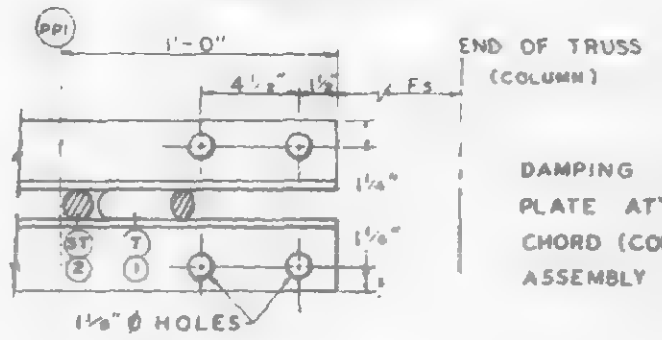
TRUSS ELEVATION



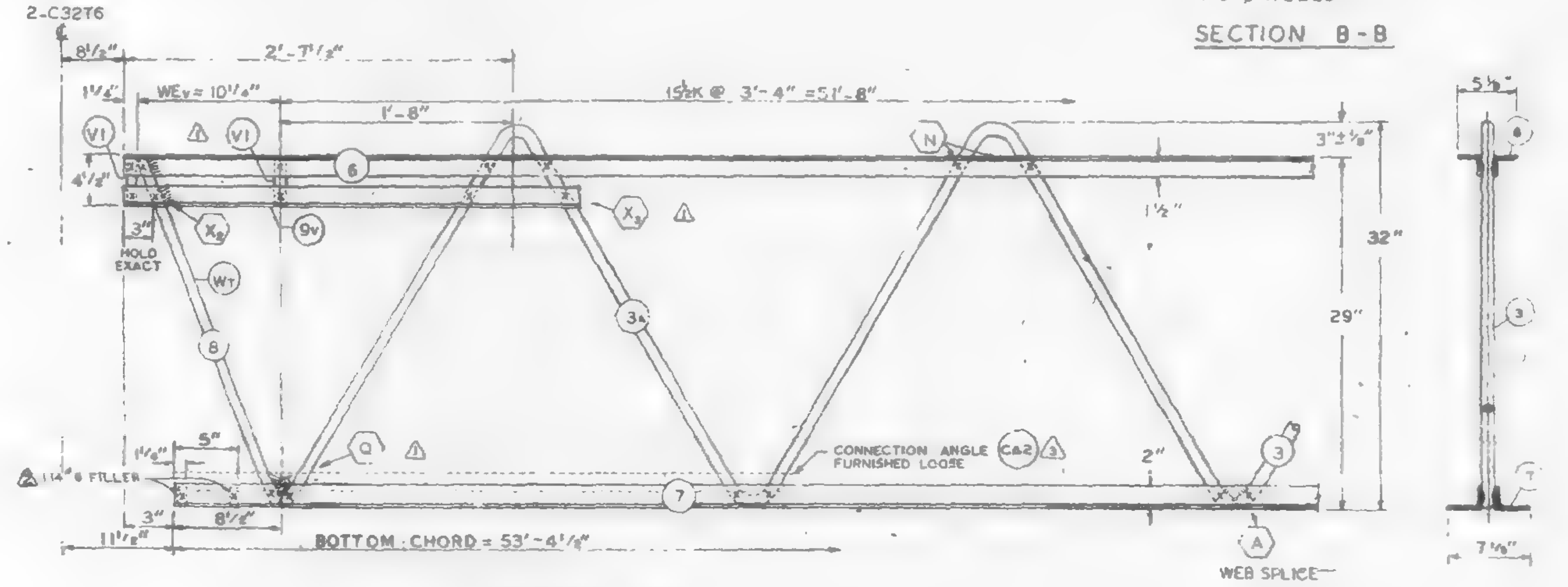
E_S END (COLUMN)



SECTION A-A



SECTION B-B



E_L END (CORE)

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291
AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

FABRICATION REQUIREMENTS	DESIGN	TOL.
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	21 7/8"	± 1/4"

NO.	DATE	REVISION	BY
4	12-9-68	MAIN WEB LENGTH.	G.D.C.
3	11-19-68	AS NOTED	G.D.C.
2	8-30-68	BOTTOM CHORD FILLER	T.M.C.
1	7-1-68	AS NOTED	T.M.C.

(3) REF. DRWG.

7-AB1-7	7-22-68
7-AB1-52	2-15-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-53	10-15-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH (4)	NO OF K	FILLER (2) NO	DIA	"M" C-C HOLES	CONNECTION FILLER NO	DIA.	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T9-5810	6	A242	2"x1½"x.31"	58'-10"	7	A36	3"x2"x.33"	53'-4½"	3 3A	A36 A242	1.09 1.14	84'-6½" 12'-5 2"	13½ 2K x 3'-4" = 45'-0" 2K x 3'-4" = 6'-8"	12 2	1.09 1.14	—	4	1.09	3"	—	—	—	—

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH (3)	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
C32T9-5810	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	.14"	6'-5"	2	A36	.09	2'-4⅜"	A242	.4"	4⅜"	A242	.14"	2'-9½	-	—	—	—

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-5½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

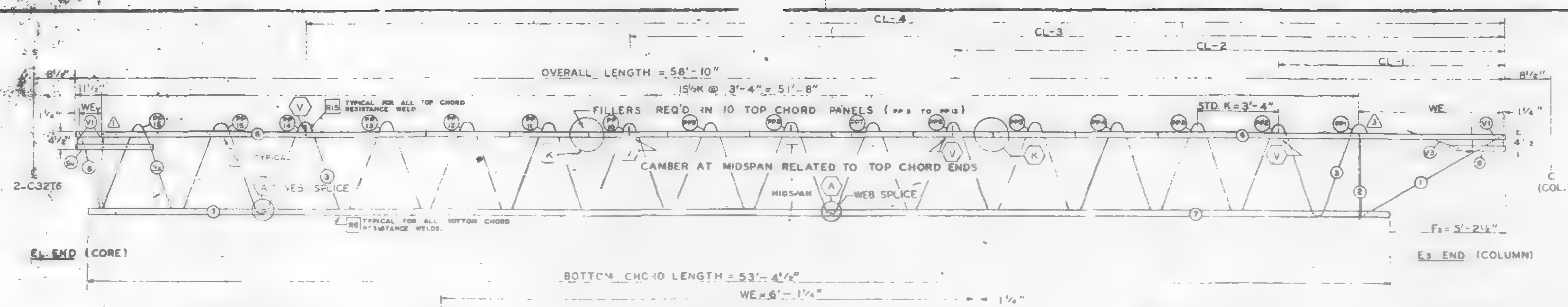
EL END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V[illegible] TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK.	TYPE STEEL	PCS	DIA.	LENGTH	CONNECTION ANGLES (FURNISHED LOOSE) NO.	MK. (3)	TYPE STEEL	ANGLE SIZE	LENGTH
C32T9-5810	9v	A242	2"x1½"x.31" (1)	3'-2"	10⅛"	—	—	—	—	—	—	—	—	A242	1.14"	4⅜	—	—	—	—	—	—	—	—	—	—	—	8	A242	1	1.14"	2'-5¾"	2	CA2	A242	2"x1½"x37"	4'-4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T9 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

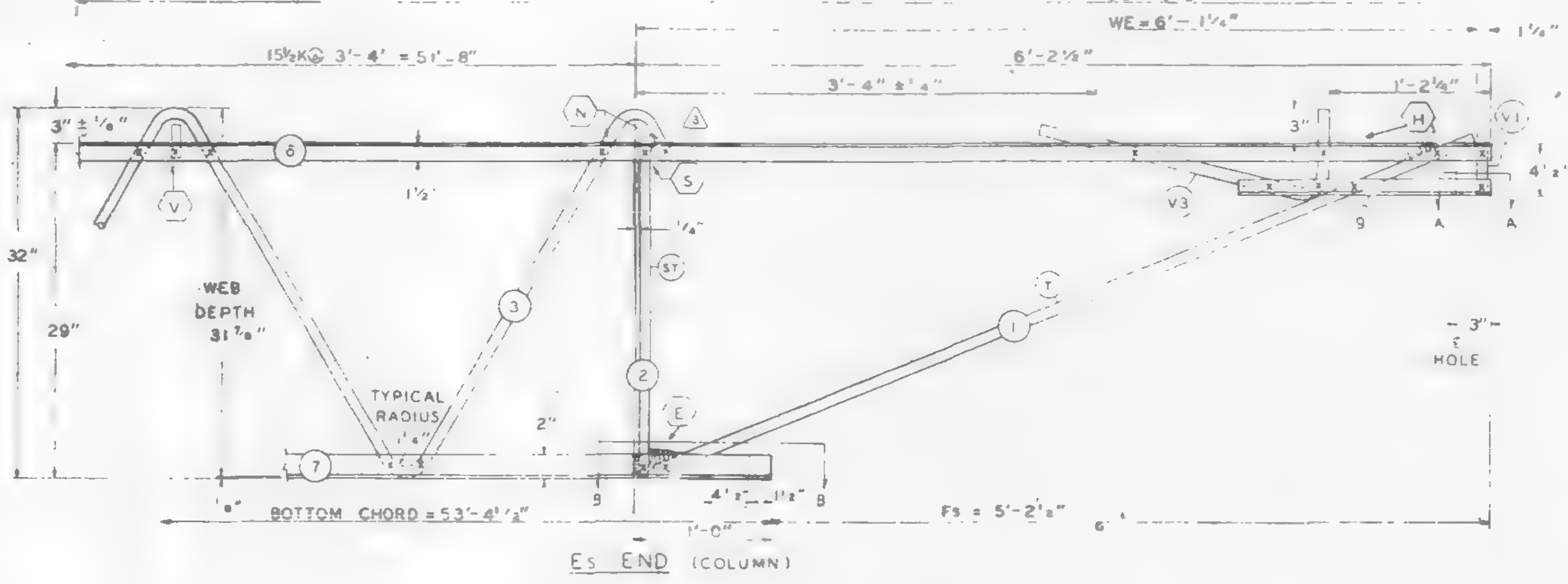
FABRICATION BY: LACLEDE STEEL COMPANY			
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-7 7-AB3-2	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A.	DATE 12/12/68	DRAWN BY: DATE: MAY 27, 1968	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE.	CHECKED BY: J.R. [illegible] DATE MAY 27, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: [illegible]		FABRICATION CONT. NO. W.T.C. 221.[illegible]	SHEET NO. ST209



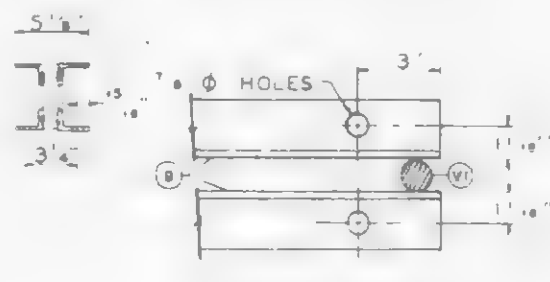
TRUSS ELEVATION

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 1/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH		± 3/8"
WEB DEPTH	31 7/8"	± 1

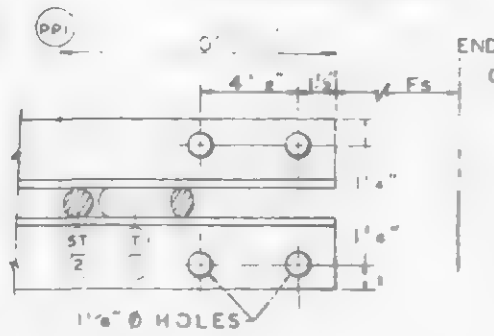
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291 AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, IE., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, IE., [R6].



Es END (COLUMN)

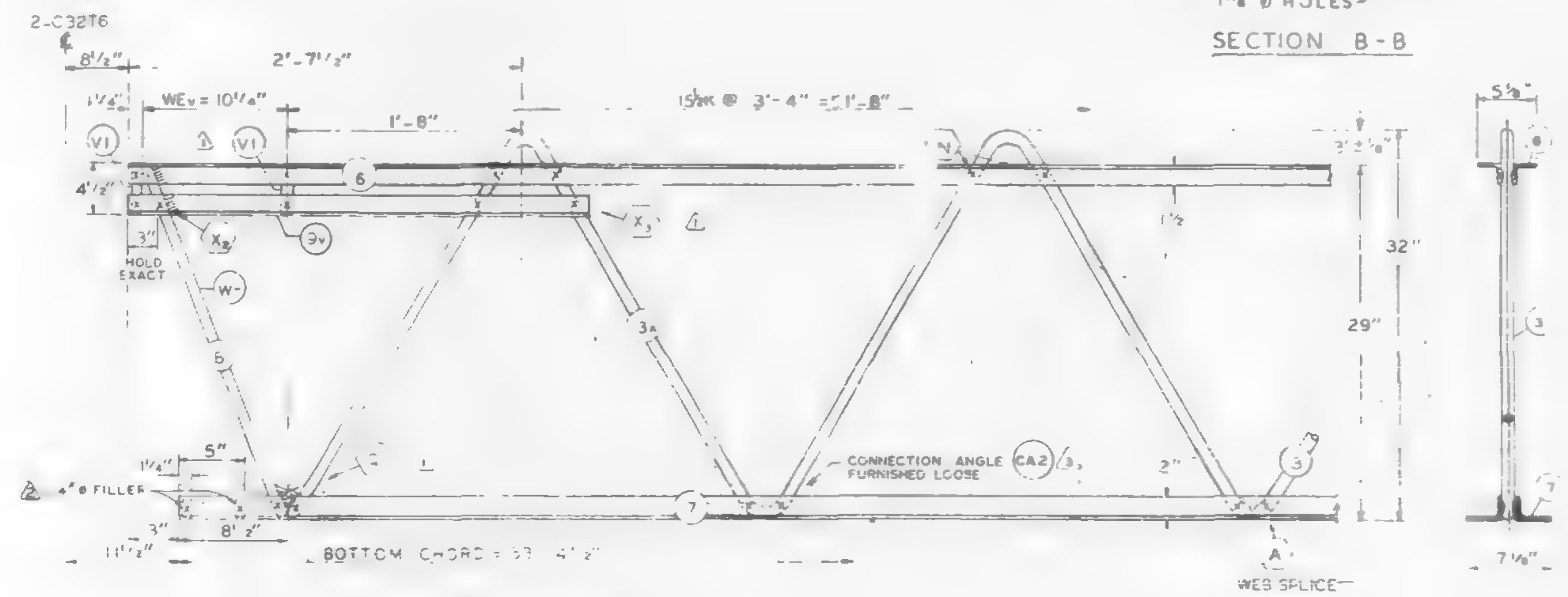


SECTION A-A



SECTION B-B

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.0



EL END (CORE)

NO	DATE	REVISION	BY
3	11-19-68	AS NOTED	G.C.
2	8-30-68	BOTTOM CHORD FILLER	T.M.C.
1	7-1-68	AS NOTED	T.M.

3 REF. DRWG.

7-AB1-7	7-22-68
7-AB1-52	2-15-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4 50.5	10-20-67
7-AB1-53	10-18-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	M C-C HOLES	CONNECTION FILLER NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T9-5810	6	A242	2"x1½"x.31	58'-10"	7	A36	3"x2"x.33	53'-4½"	3 / 3A	A36 / A242	1.09 / 1.14	48'-6½" / 12'-5"	13½K, 3'-4", 45'-0" / 2K, 3'-4", 6'-8"	2 / 2	1.09 / 1.14	—	4	1.09	3"				—

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
Es END	C32T9-5810	9	A242	2"x1½"x.25	1'-10"	6'-1¼"	1	A242	1.14"	6'-5"	2	A36	1.09"	2'-4⅞"	A242	1.14"	4⅜"	A	1.14"	2'-9½"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½	22'-10½	36-2½	45 6½	5-2½

CORE END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH	CONNECTION ANGLES (FURNISHED LOOSE) NO.	MK	TYPE STEEL	ANGLE SIZE	LENGTH
EL END	C32T9-5810	9v	A242	2"x1½"x.3	3'-2"	10½"	—	—	—	—	—	—	—	—	A242	1.14"	4⅝"	—	—	—	—	—	—	—	—	—	—	—	8	A242	1	1.14"	2'-5¾"	2	CA2	A242	2"x1½"x.37"	4'-4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

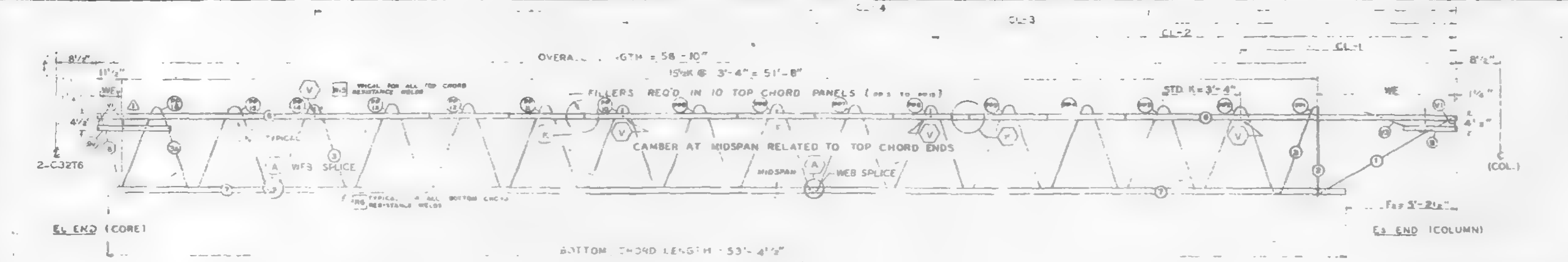
FLOOR TRUSS C32T9 - 58'-10" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-7 7-AB3-2	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE 12/2/68	DRAWN BY: DATE MAY 27, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY: DATE MAY 27, 1968	IN CHARGE OF PROD. DEV
DETAILED BY		FABRICATION CONT. NO. WTC 221	SHEET NO ST209

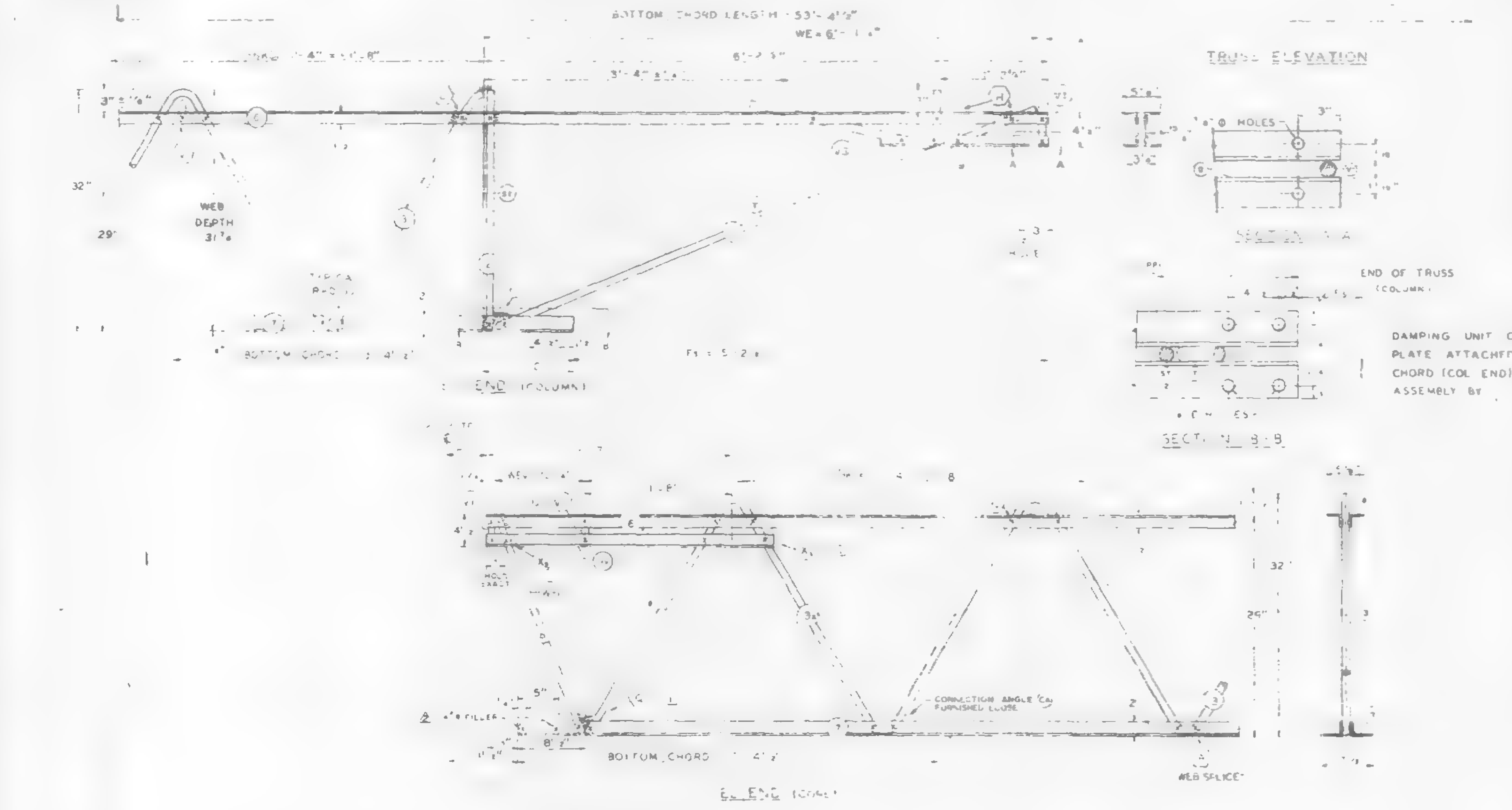
FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



Ec END (CORE)

Es END (COLUMN)



ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291
AND ST292.
SEE SHEET ST295 FOR V1 & V2 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, ie., 96

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD
ASSEMBLY BY [illegible]

NO	DATE	REVISION	BY
2	8 30 68	BOTTOM CHORD FILLER	[illegible]
1	7 66	AS NOTED	[illegible]

REF. DRWG.

7-AB1-7	4-15-68	
7-AB2-32	2-15-68	
7-AB4-30	[illegible]	
7-AB3-2	[illegible] 68	
7 AB4 30.5	10 20-67	
7 AB-53	4 1 68	

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		C C HOLES	CONNECTION			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T9 58C	6	A242	2 x 1½ x .31	58'-10"	7	A36	[illegible] x 2 x .33	53'-4½"	3 / 33	A36 / A242	1.09 / 1.14	[illegible]	13'/2K 3'-4" = 45'-0" / 2½ 3'-4" 6'-8"	[illegible]	[illegible]	—	4	1.09	3"		—		—

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		C32T9 [illegible]	9	A242	2" x 1½" x .25	1'-10"	6'-1¼"	[illegible]	A242	[illegible]	6'-5"	2	A36	[illegible]	2'-7⅞"	A242	[illegible]	4⅞"	A242	[illegible]	2'-9½"		—	—	—

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

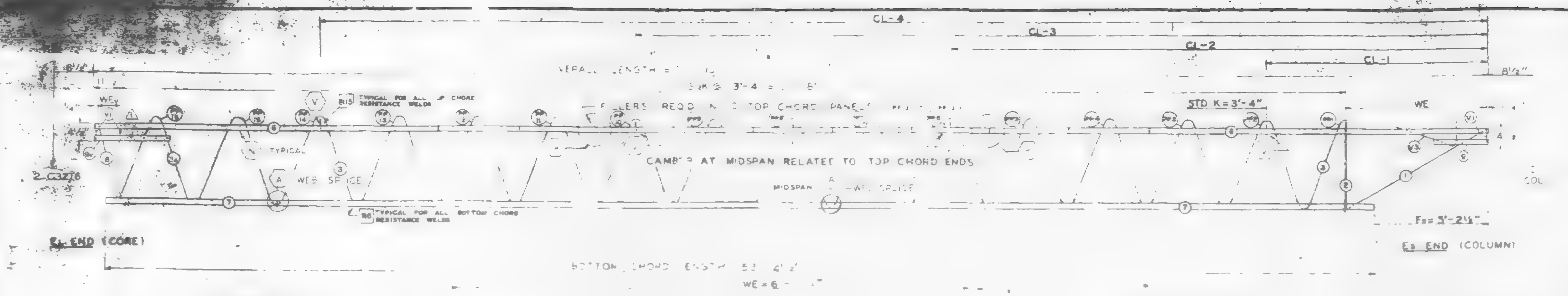
CL-1	CL-2	CL-3	CL-4	Es
[illegible]	22'-10½"	35 [illegible]	[illegible]	[illegible]

CORE END	Ec END	TRUSS DESIGNATION	BEARING ANGLES				WE	VERTICAL "V" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4				WEB "Wc"				WEB "WT"					CONNECTION ANGLES (FURNISHED LOOSE)				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
		C32T9 58C	9	A242	2 x [illegible]	3'-2	10¼"	—	—	—	—	—	—	—	—	A242	1.14"	4⅞"	—	—	—	—	—	—	—	—	—	—	—	8	A242	1	1.14"	2' 5¾"	2	Ca	A242	2" x 1½" x .37"	4'-4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T9 58'-10" OVERALL
WORLD TRADE CENTER TOWERS A-B

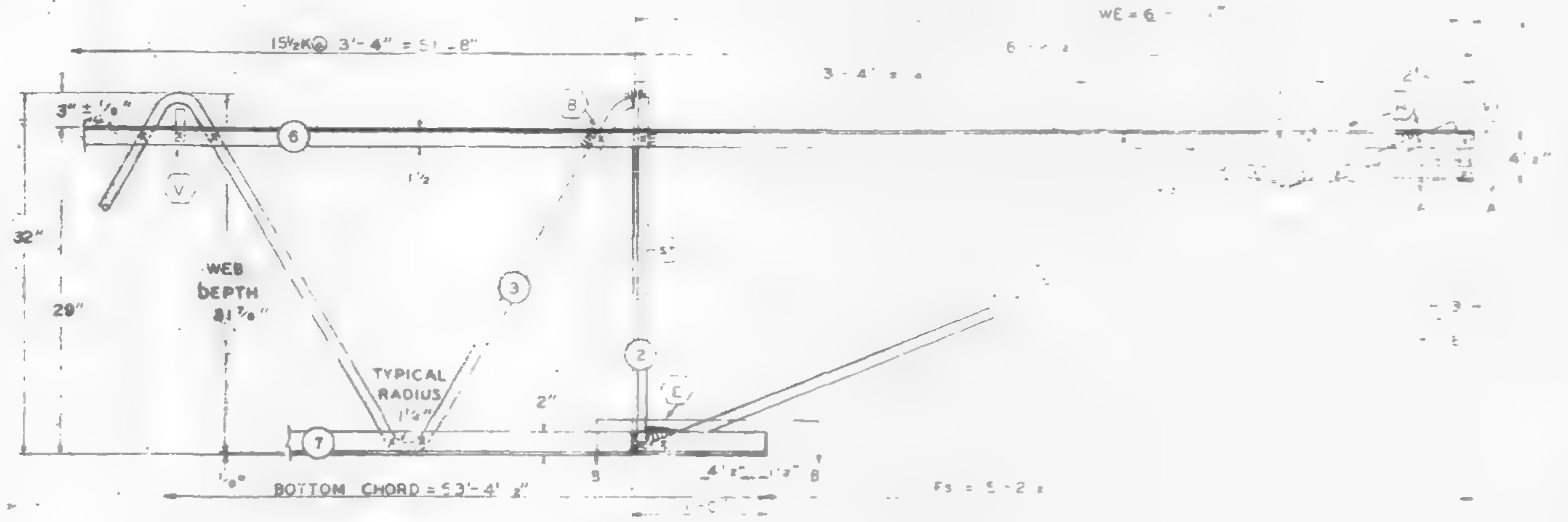
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB [illegible] 7-AB3-2 PLATE
APPROVED FOR FABRICATION [illegible] FOR PONYA. DATE 9/4/68
DRAWN BY [illegible] DATE MAY 27, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
LACLEDE [illegible]
CHECKED BY J.E. [illegible] DATE MAY 27, 1968
IN CHARGE OF PROD. [illegible]
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. WTC 221
SHEET NO. ST209



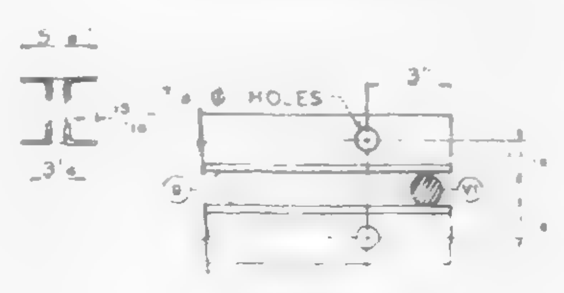
EL END (CORE)

Es END (COLUMN)

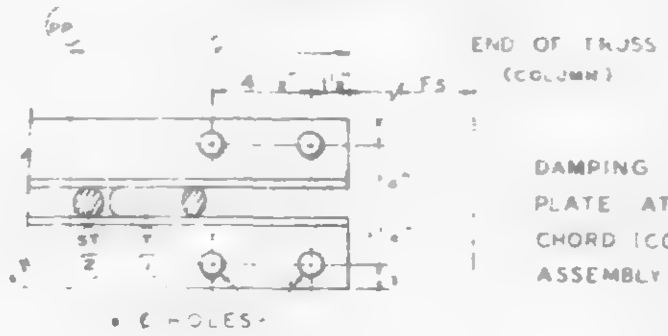
TRUSS ELEVATION



Es END (COLUMN)

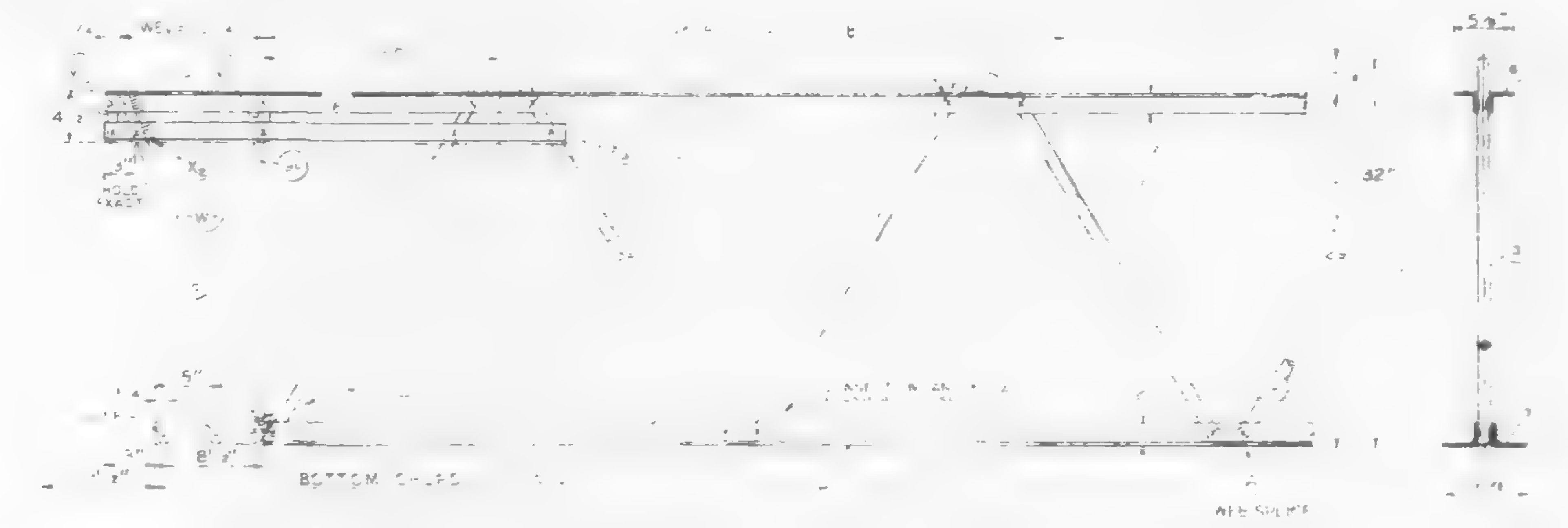


SECTION A-A



SECTION B-B

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY



FABRICATION REQUIREMENTS	DESIGN	TO ANCE
CAMBER AT MIDSPAN	1 15	/8"
DESIGN DEPTH	"	1/4"
PANEL "K"	3'-4"	1/
OVERALL LENGTH	58	
WEB DEPTH	31 7/8"	1/4"

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291 AND ST292
SEE SHEET ST FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

NO	DATE	REVISION	BY
1	7-1-66	AS NOTED	T.M.

REF. DRWG.

7-AB1-7	4-15-68
7-AB1-62	2-15-66
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-53	4-1-66

PAINT
LACLEDE ELECTROCOAT
REF. NO. 0001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO. OF	NO.				MK.	TYPE STEEL	SIZE	LENGTH
C32T9-58K	6	A242	2"x1½"x.31"	58'-10	7	A36	[illegible]	53'-4½"	3	A36	1.09	84'	[illegible]	[illegible]							

Es END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
C32T6-5810	9	A242	2"x1½"x.25"	1'-10"	6'-1⅛"	1	A242	4"	6'-5"	2	A36	.50"	2'-7⅞"	A242	4"	4⅝"	A24	4"	2'-9				

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS

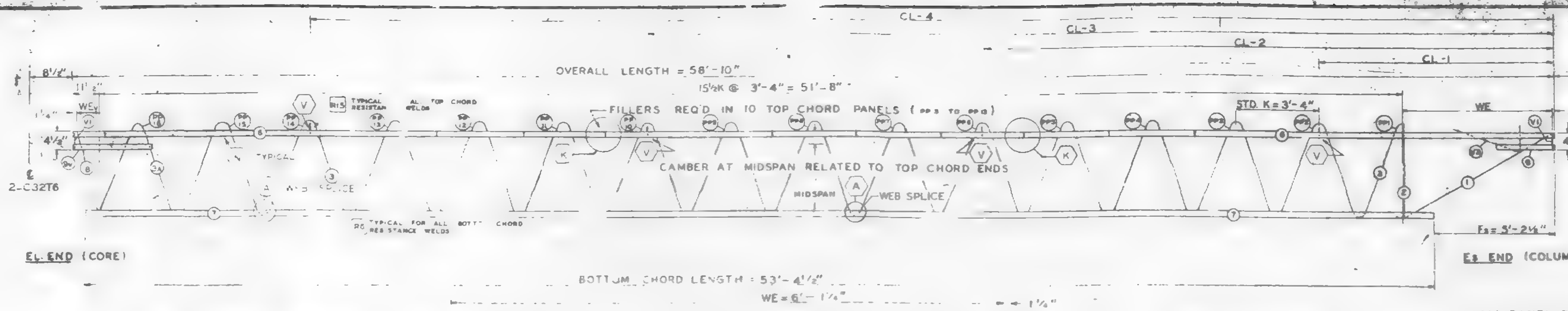
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE_Y	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK.	TYPE STEEL	PCS	DIA	LENGTH	WEB "Wy" MK.	TYPE STEEL	PCS	DIA.	LENGTH	CONNECTION ANGLES (FURNISHED LOOSE) NO.	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
C32T6-5810	9	A242	2"x1½"x.31"	3'-2'	10'-4"	-	—	—	—	-	—	—	—	A242	1.14"	4⅜"	—	—	—	—	—	—	-	—	—	—	-	8	A242	1	1.14"	2'-5⅝"	2	CA	A242	2"x1½"x37"	4'-4'

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

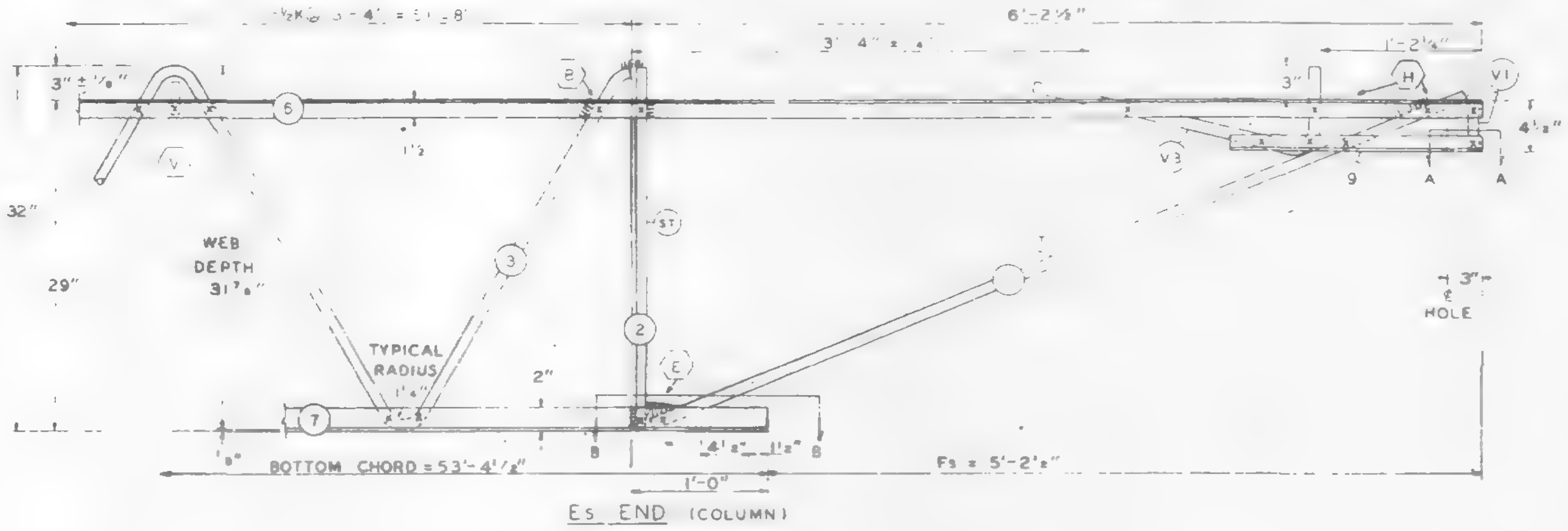
FLOOR TRUSS C32T 58' 10" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-7 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY JW FOR P.O.N.Y.A. DATE 7/9/68
DRAWN BY: DATE: MAY 27, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY: DATE MAY 27, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATOR CONT. NO. W.T.C. 221
SHEET NO. ST209

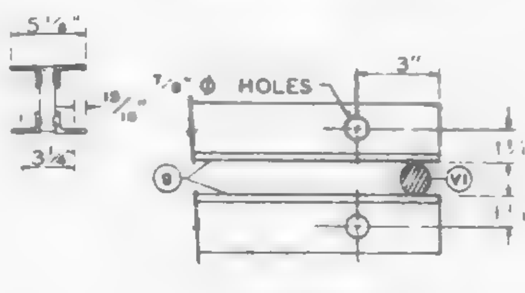


EL END (CORE) — Es END (COLUMN)

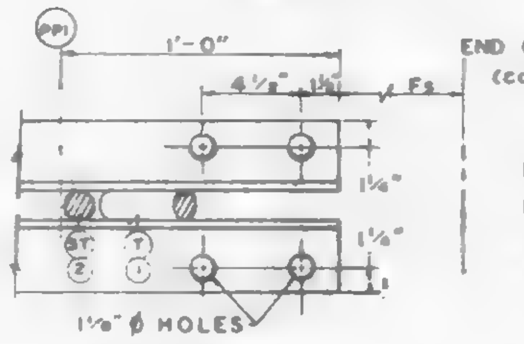
TRUSS ELEVATION



Es END (COLUMN)



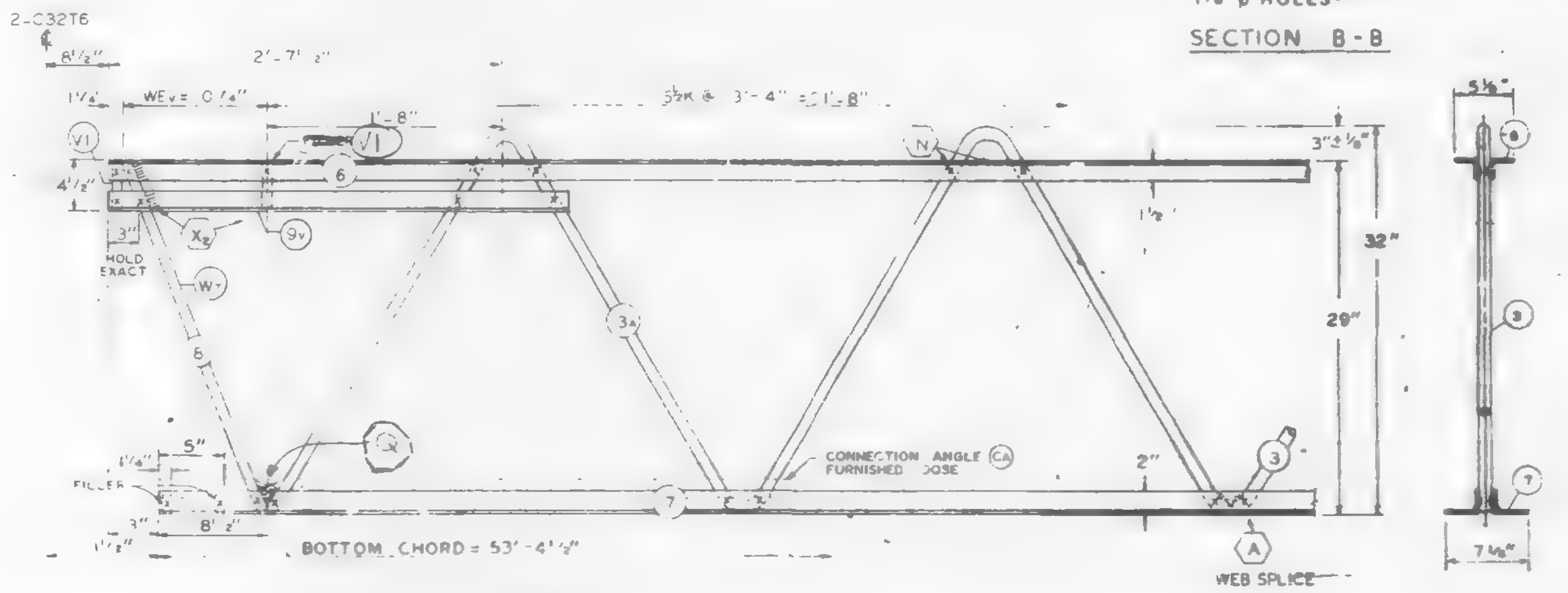
SECTION A-A



SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291
AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	[illegible]
DESIGN DEPTH	[illegible]	± 1/4"
PANEL "K"	[illegible]	[illegible]
OVERALL LENGTH	58'-10"	[illegible]
WEB DEPTH	[illegible]	± 1/4"

REF. DRWG.

7-AB1-7	4-15-68
7-AB1-62	2-15-68
7-AB4-50 & 60.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-58	4-1-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	CONNECTION FILLER			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	MK	DIA		NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T9-58IC	6	A242	[illegible]	[illegible]	7	A36	[illegible]	[illegible]	3 / 3S	A36 / A242	[illegible]	[illegible]	[illegible]	13	1.09"	—	4	1.09	3"	—	—	—	—

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "ST" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T9 [illegible]	9	A242	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6'-5"	2	A36	1.09"	2'-7⅞"	A242	[illegible]	4⅝"	A242	1.14"	2'-9⅛"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

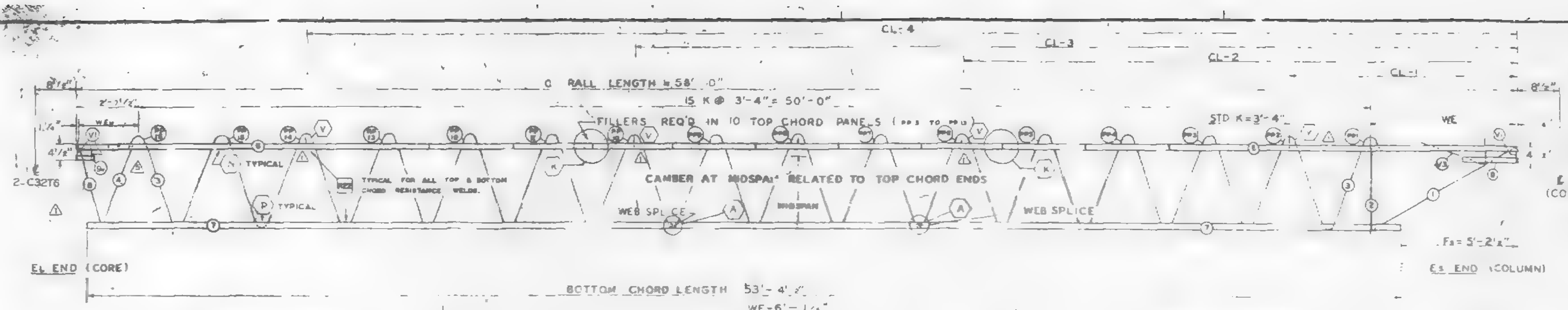
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	VERTICAL STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			MK V2			MK V4			WEB "W1"					WEB "W2"					CONNECTION ANGLES (FURNISHED LOOSE)				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA.	LENGTH	NO.	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
	C32T9-58IC	[illegible]	A242	[illegible]	[illegible]	[illegible]									A242	1.14"	4⅝"	—	—	—	—	—	—	—	—	—	—	—	8	A242	1	1.14"	2'-5¼"	2	CA	A242	2"x 1½"x 3/16"	4'-4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T9 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A–B

FABRICATION BY: LACLEDE STEEL COMPANY			
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-7 7-AB1-62	PLATE
APPROVED FOR FABRICATION BY. ____ FOR P.O.N.Y.A	DATE	DRAWN BY: [illegible] DATE: MAY 27, 1968	
APPROVED FOR FABRICATION BY. ____ FOR FABRICATOR	DATE	CHECKED BY: [illegible] DATE: MAY 27, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: [illegible]		FABRICATOR W.T.C. 221 [illegible]	SHEET NO. ST209



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN ⚠1	1	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	58 C	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

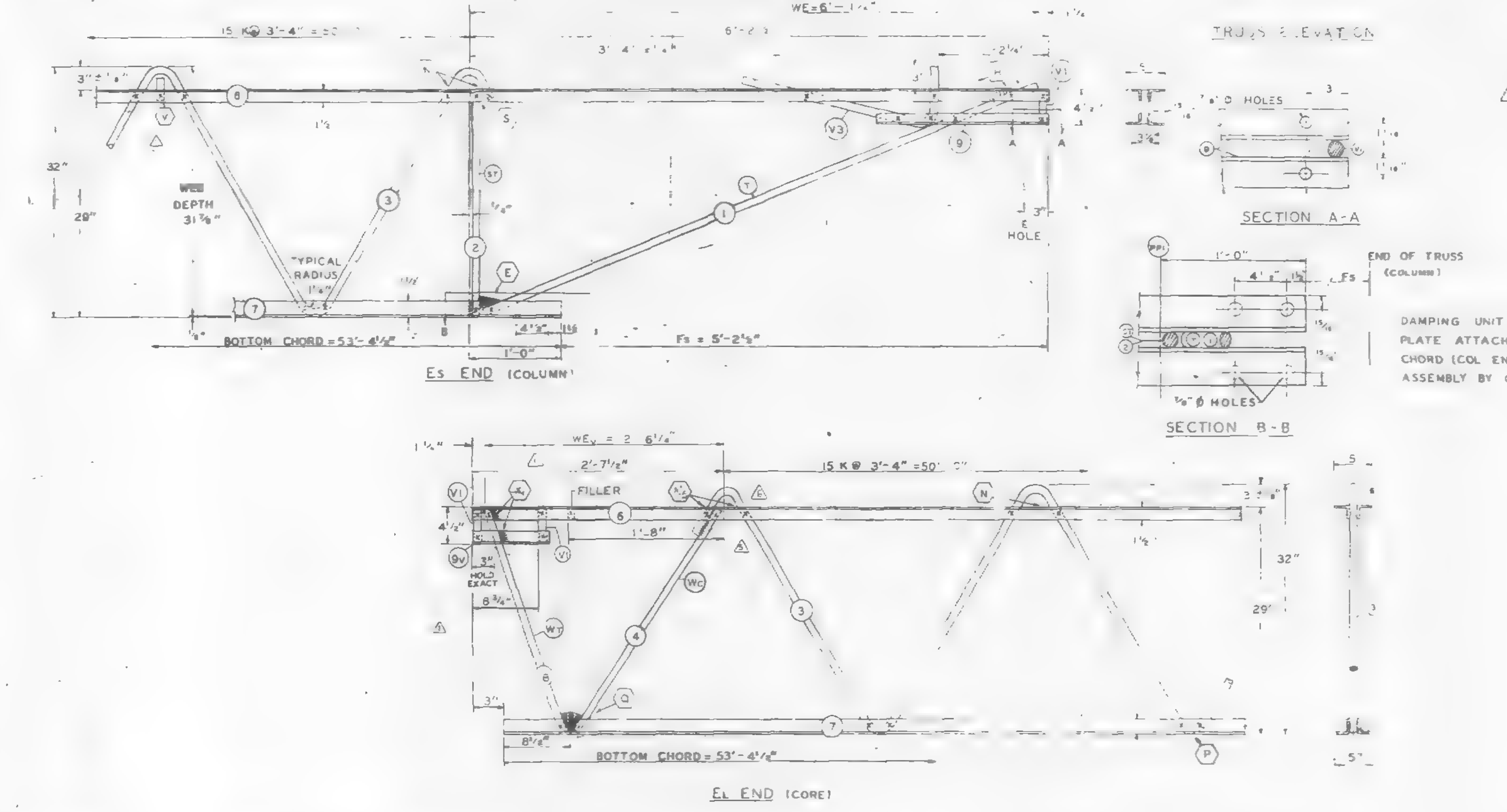
ALL PANEL POINTS RESISTANCE WELDED (+ ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES)

⚠1 ALL WELD DETAILS SHOWN ON SHEETS ST290, ST 291, AND ST292

SEE SHEET ST295 FOR V1 & V3 DETAILS

LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., (A).

LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R22.



NO	DATE	REVISION	BY
6	5-8-70	AS NOTED	G.D.C.
5	1-70	AS NOTED	G.D.C.
4	12-3-68	GENERAL	G.D.C.
3	7-1-68	CONNECTION FILLER	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	5-27-68	AS NOTED	T.M.C.

REF. DRWG.

PAINT

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO.	DIA	"M" C/C HOLES	CONNECTION FILLERS NO.	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA	
C32T10-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	53'-4½"	3	A242	.92"	94'-[illegible]"	15 @ 3'-4" = 50'-0"	11	.92"	—	4	.92	5"	—	—	—	—		

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
	C32T10-5810	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	.92"	6'-5"	2	A242	[illegible]	[illegible]'-4⅞"	A242	.92"	4⅜"	A242	[illegible]	[illegible]'-9½"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEV	VERTICAL "STV" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK.	TYPE STEEL	PCS	DIA	LENGTH	WEB "WY" MK.	TYPE STEEL	PCS	DIA	LENGTH
	C32T10-5810	9V	A242	2"x1½"x.25"	10"	2'-6½"	—	—	—	—	—	—	—	—	A242	.92"		—	—	—	—	—	—	4	A242	1	.92	2'-10"	8	A242	1	.92"	2'-5¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T10 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

DESIGN DRAWING NO.: PLATE

APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE

DRAWN BY: DATE: FEB. 24, 1968

APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE

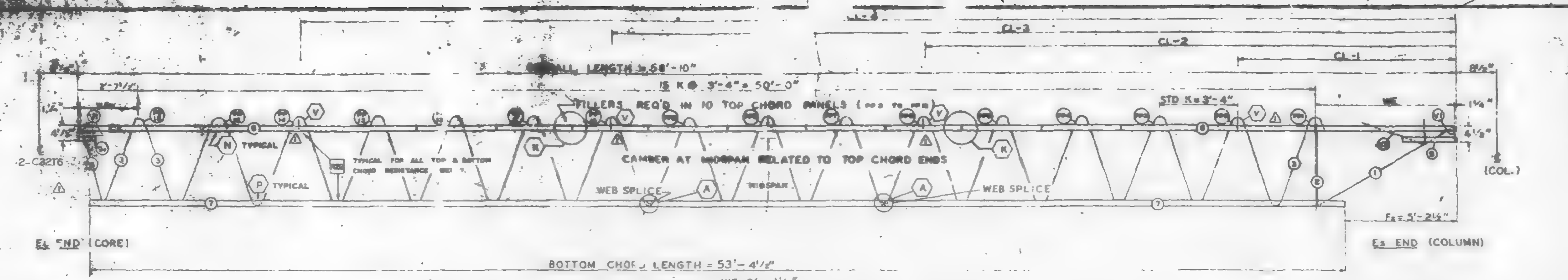
CHECKED BY: DATE FEB. 1968

IN CHARGE OF PROD. DEV.

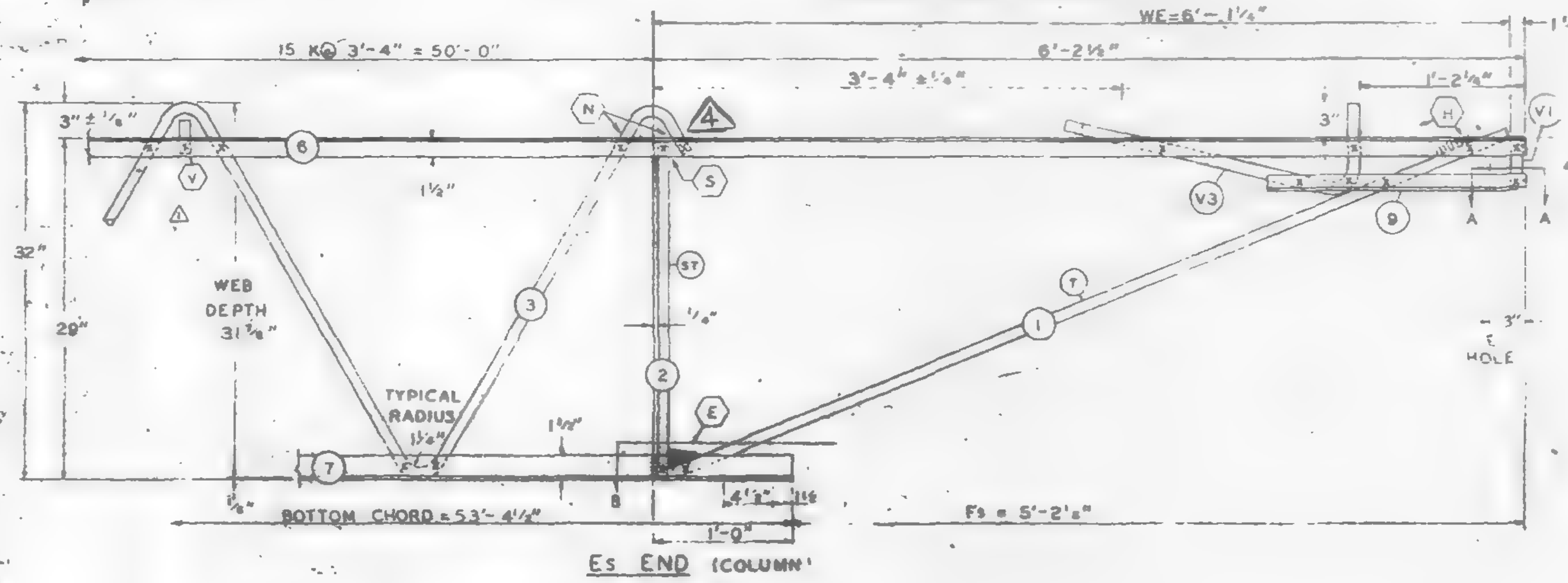
DETAILED BY: A.C. WEBER

FABRICATION CONT NO.: W.T.C. 221

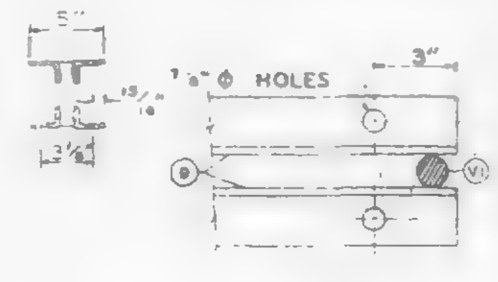
SHEET NO: ST210



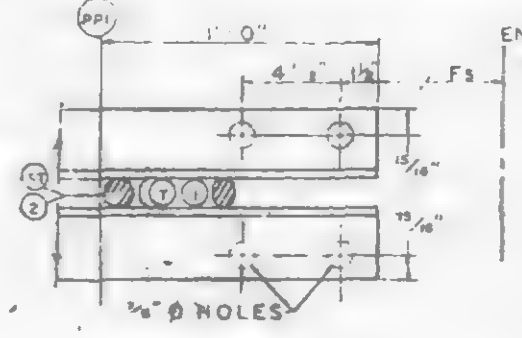
TRUSS ELEVATION



Es END (COLUMN)



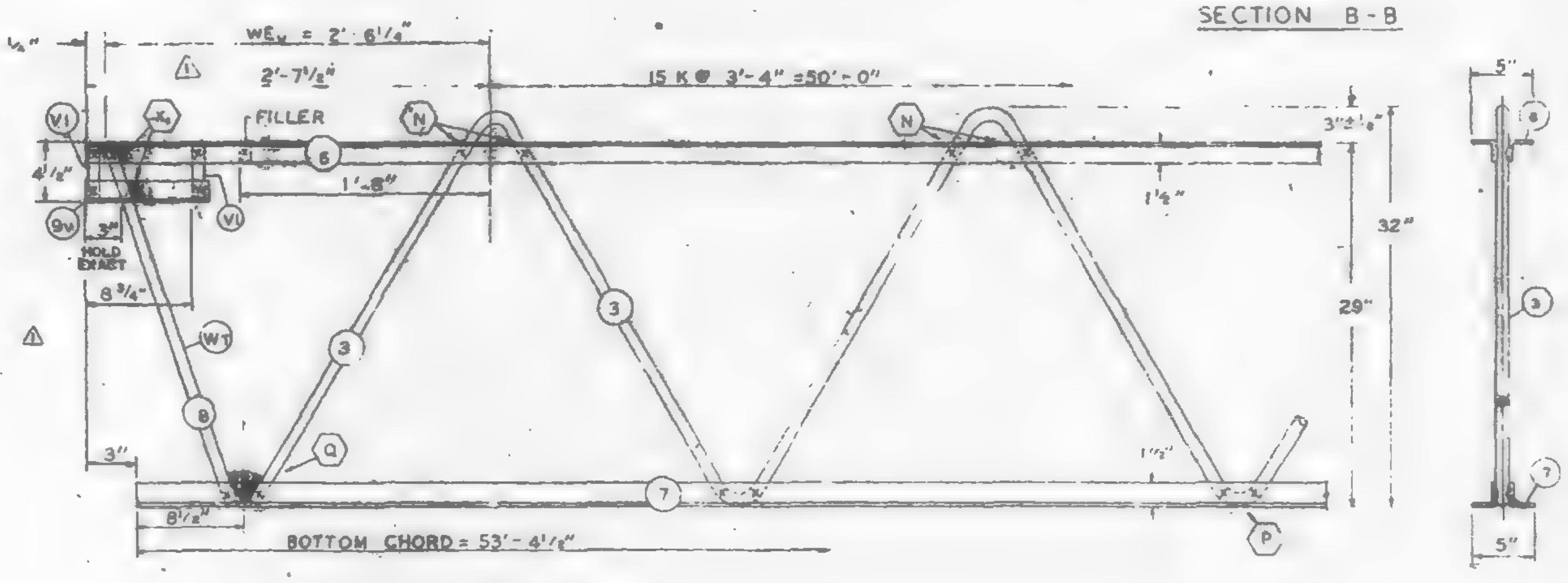
SECTION A-A



SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)

FABRICATION REQU[illegible]		
	[illegible]	[illegible]
CAMBER AT MIDSPAN	1[illegible]	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	[illegible]	[illegible]
OVERALL LENGTH	58'-10"	[illegible]
WEB DEPTH	[illegible]	[illegible]

NO.	DATE	REVISION	BY
4	12-3-68	GENERAL	G.D.G.
3	7-1-68	CONNECTION FILLER	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	5-27-68	AS NOTED	T.M.C.

REF. DRWG.

7-A81-6	7-22-68
7-A81-52	[illegible]
7-A84-50	8-1-68
7-A83-2	1-3-68
7-A84-50,5	10-20-67
7-A81-53	7-22-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" c/c HOLES	CONNECTION FILLERS			CHORD PLATE				TRUSS DATA	
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF W	NO	DIA		NO.	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH		
C32T10-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	53'-4¼"	3	A242	.92"	97'-0"	15½ @ 3'-4" = 51'-8"	11	.92"	—	4	.92	3"	—	—	—	—		

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
	C32T10-5810	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	.98"	6'-5"	2	A242	.92"	[illegible]'-4⅞"	A242	.98"	4⅜"	A242	.98"	2'-9½"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10⅛"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	VERTICAL "ST" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			MK. [illegible]			MK. V4			WEB "Wc"					WEB "WT"				
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH (2 REQ'D)	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
	C32T10-5810	9V	A242	2"x1½"x.25"	10"	2'-6¼"				—					A242	.92"	4⅜"	—	—	—	—		—		—	—	—	—	8	A242		.92	2'-5¼"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T10 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS

DESIGN DRAWING NO. 7-A81-6 7-A88-[illegible] PLATE [illegible]

APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A. DATE 2/9/68

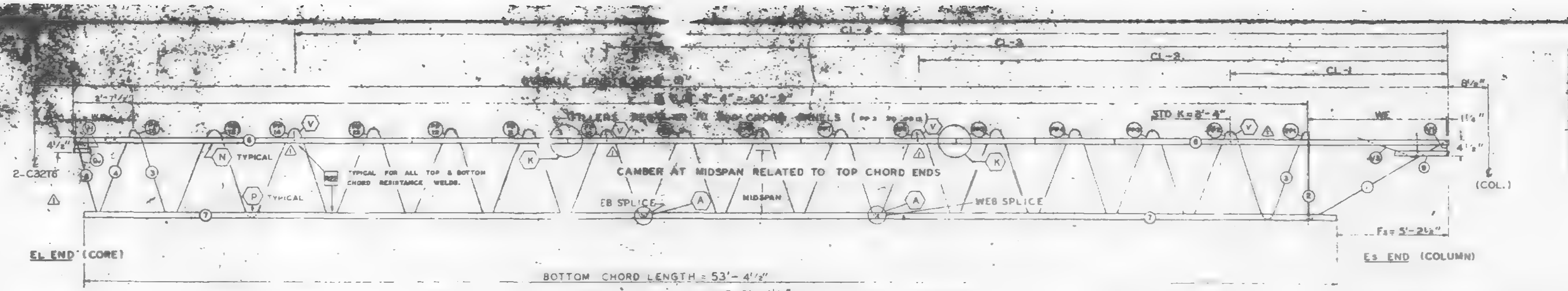
DRAWN BY: [illegible] DATE FEB. 24, 19[illegible]

APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE

CHECKED BY: [illegible] DATE FEB. [illegible] IN CHARGE OF [illegible]

DETAILED BY [illegible]

FABRICATION [illegible] W.T.C. 22 [illegible] NO. ST2[illegible]

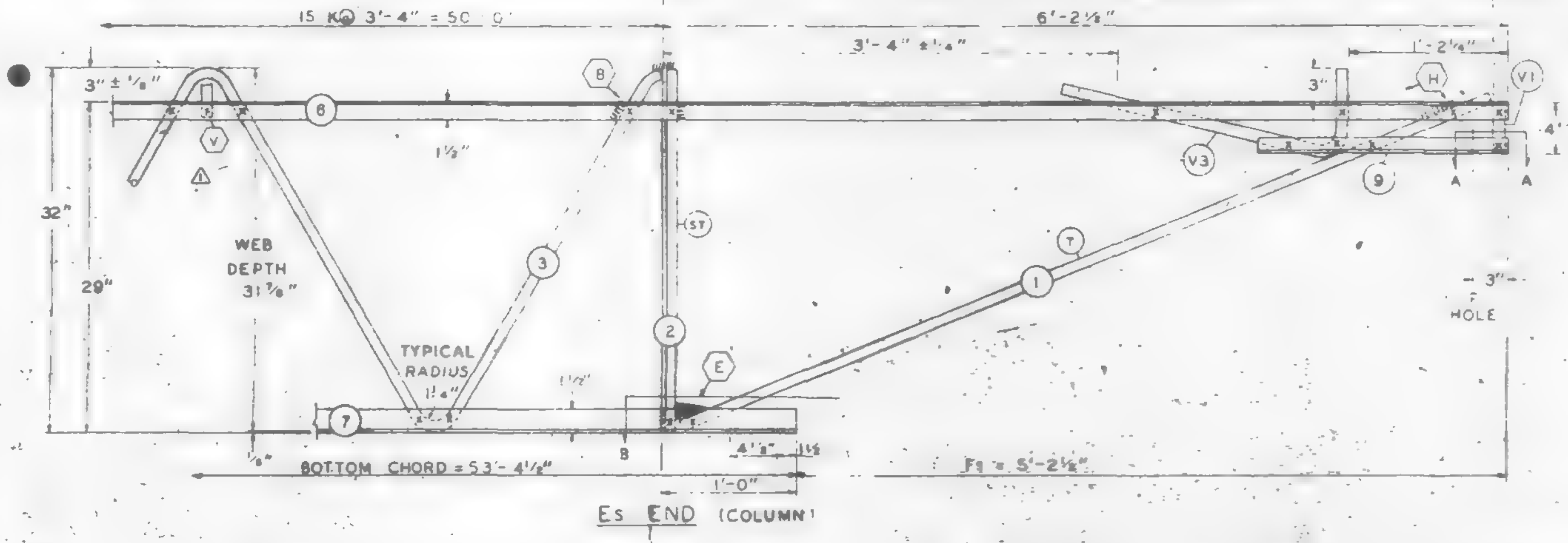


EL END (CORE)

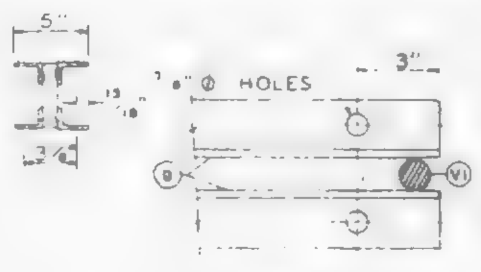
Es END (COLUMN)

BOTTOM CHORD LENGTH = 53'-4½"

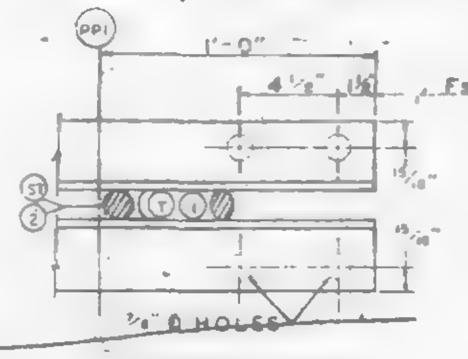
TRUSS ELEVATION



Es END (COLUMN)



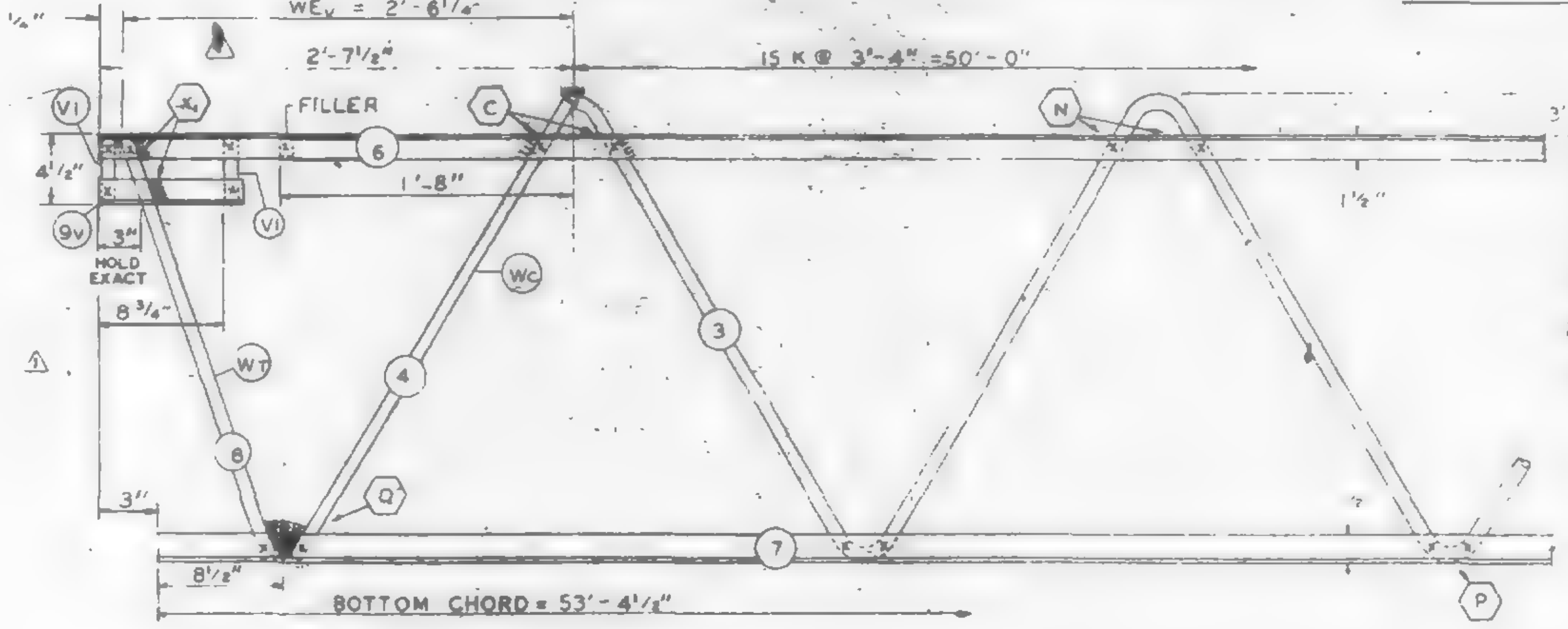
SECTION A-A

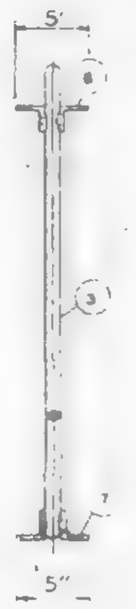


SECTION B-B

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY CONTRACT WTC 223.00.

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22.





EL END (CORE)

FABRICATION		
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	[illegible]	[illegible]
OVERALL LENGTH	58'-10	[illegible] 3/8"
WEB DEPTH	31 7/8"	[illegible] 1/8"

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO. OF ⊼	FILLER NO.	DIA	"M" C/C HOLES	CONNECTION FILLERS NO.	DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T10-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	53'-4¼"	3	A242	.92"	93'-5¼"	15@ 3'-4"=50'-0"	11	.92"	—	4	.9c	3"	—	—	—	—	

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
C32T10-5810	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	.98"	6'-5"	2	A242	.92"	[illegible]-7⅞"	A242	.98"	"	A242	[illegible]	[illegible]-9½"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK. V3 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	WEB "Wc" MK.	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK.	TYPE STEEL	PCS	DIA.	LENGTH
C32T10 5810	9v	A242	2"x1½"x.25"	10"	2'-6½"	—	—	—	—	—	—	—	—	A242	.92"	4¼"	—	[illegible]	—	—	—	—	4	A242	1	.92"	3'-0½"	8	A242	1	.92"	2'-5¾"

NO.	DATE	REVISION	BY
3	7-1-68	CONNECTION FILLER	T.M.C.
2	6-27-68	AS NOTED	T.M.C.
1	5-27-68	AS NOTED	T.M.C.

REF. DRWG.

7-AB1-8	△1 5-10-68
7-AB1-52	2-13-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-53	4-1-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS

WORLD TRADE CENTER - N.Y.C.

THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T10 58'-10" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. [illegible] PLATE [illegible]

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A DATE 8/16/68

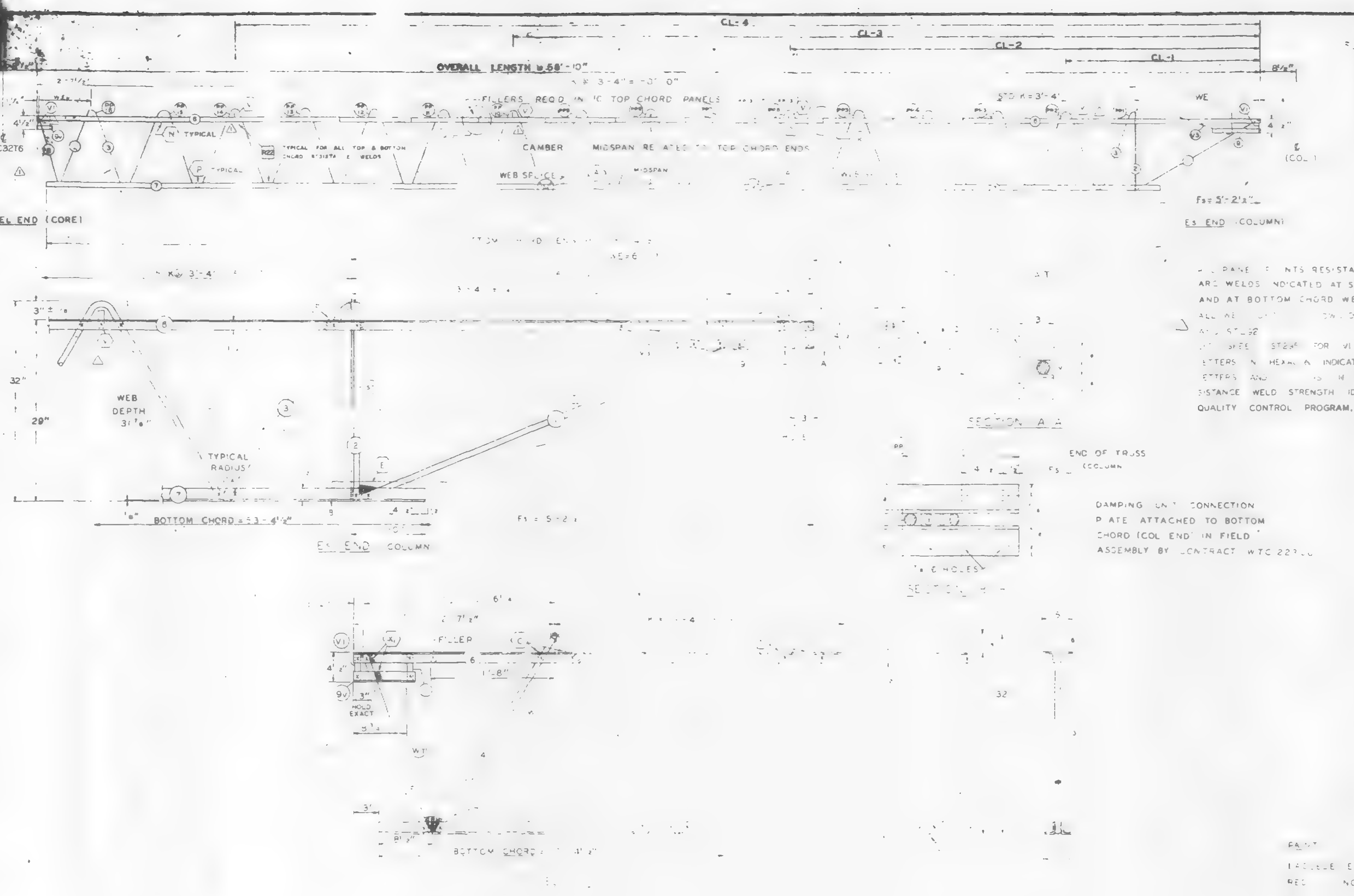
DRAWN BY [illegible] DATE: FEB. 26, 1968

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE.

CHECKED BY [illegible] IN CHARGE OF [illegible] DATE FEB. [illegible]

DETAILED BY: R. C. WEBER

FABRICATION [illegible] W.T.C. 221 [illegible] ST216



ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL ... ON SHEETS ST290 ST 291,
AND ST 292
... SEE ... ST29... FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND ... IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22.

FABRICATION ...		
CAMBER AT MIDSPAN	16	6"
DESIGN DEPTH	7"	6 1/4"
PANEL "K"	3'-4"	6 1/4"
OVERALL LENGTH	58'-0"	6 7/8
WEB DEPTH	31 7/8"	6 1/4"

NO	DATE	REVISION	BY
2	6-27-68	AS NOTED	T.M.C.
1	5-27-68	AS NOTED	T.M.C.

REF. DRWG.

7-AB1-8	5-10-68
7-AB-52	2-8-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB4 50.5	10-20-67
7-AB1-53	4-1-68

PAINT
LACLEDE ELECTROCOAT
REC. NO. 000

TRUSS DESIGNATION	MK	TOP CHORD TWO ANGLES TYPE STEEL	CHORD SIZE	...
C32T10-5810	6	A242	2"x1 1/2"x.5	[illegible]

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-5"	22'-10 1/2"	36'-2"	49'-6 1/2"	5'-2"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
C32T10-5810	9	A242	2"x1 1/2"x.25"	10"	6'-1 1/4"		A242	.98	6'-5"	2	A242	.92"	2'-7 5/8"	A242	.98"	4 5/8"	A242	.98"	2 9 1/2	—	—	—

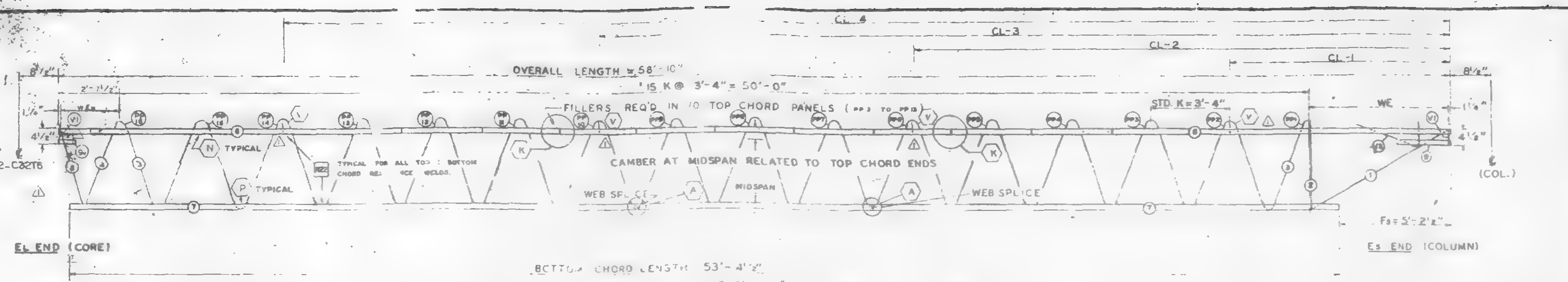
CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE V	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T10-5810	9V	A242	2"x1 1/2"x.25"	10"	2'-6 1/2"	—	—	—	—					A242	.92"	4 3/8"	—	—	—	—	—	—	4	A242	1	.92	3'-...	8	A242	1	.92"	2'-5 3/4"

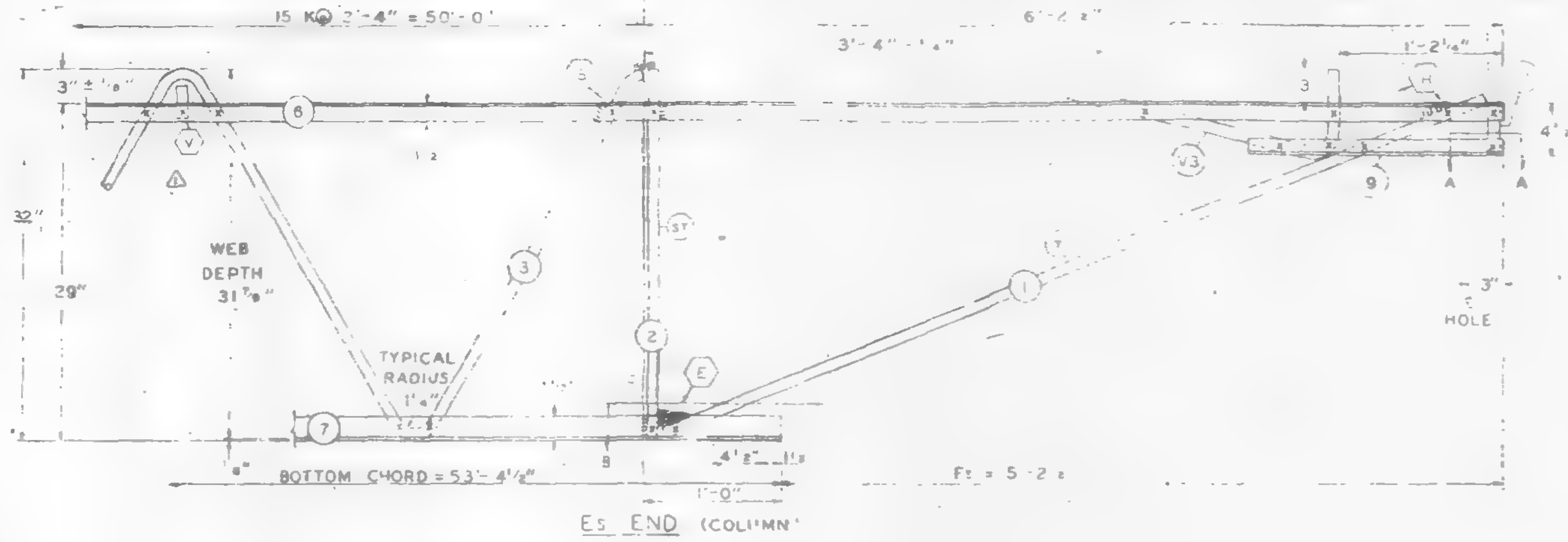
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

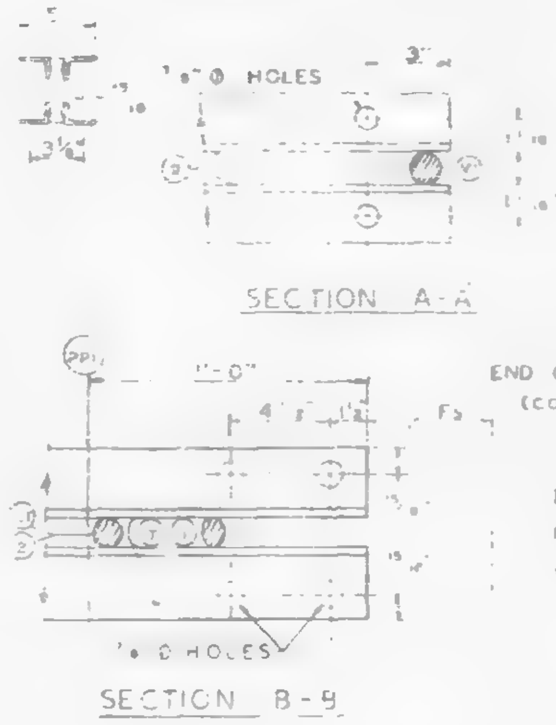
FLOOR TRUSS C32T ... 58'-... OVERALL
WORLD TRADE CENTER TOWERS, A-B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING ... PLATE ...
APPROVED FOR FABRICATION BY JW FOR P.O.N.Y.A. DATE 7/5/68
DRAWN BY: ... DATE: FEB. 24, ...
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR DATE ___
CHECKED BY: ... CHARGE OF DATE FEB. ... REV.
DETAILED BY A.C. WEBER
FABRICATING W.T.C. 221 SHEET NO. ST210



TRUSS ELEVATION





DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD

ALL PANEL POINTS RESISTANCE WELDED (*)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
△ ALL WELD DETAILS SHOWN ON SHEETS ST290, ST 291, AND ST292
SEE SHEET ST295 FOR & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., A.
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN △	1 11/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	-10"	± 3/8"
WEB DEPTH	7/8"	/4

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF W	FILLER NO	DIA	"M" C/C HOLES	TRUSS DATA	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T10-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	53'-4½"	3	A242	.92"	93'-5¼"	15@ 3'-4" =50'-0"	11	.92"	—		—	—	—	—

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T10-5810	9	A242	2"x1½"x.25"	1'-10"	6'-1¼"	1	A242	.98"	5'-5"	2	A242	.92"	2'-7⅞"	A242	.98"	4¾"	A242	.98"	2'-9½"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

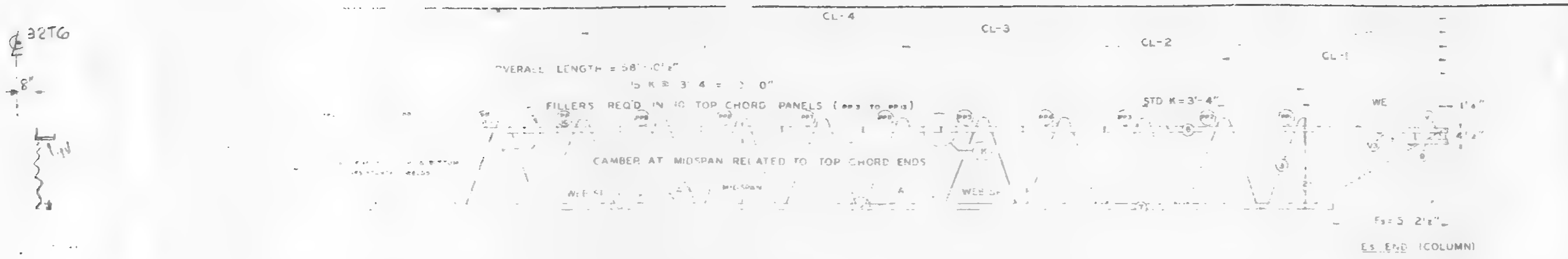
EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE_V	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	STIFFENER MK V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK V TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "WC" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WT" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T10-5810	9V	A242	2"x1½"x.25"	10"	2'-5¾"	—		—						A242	.62"	4⅝"	—	—	—	—	—	—	4	A242	1	.92"	3'-0½"	8	A242	1	.92"	2'-9"

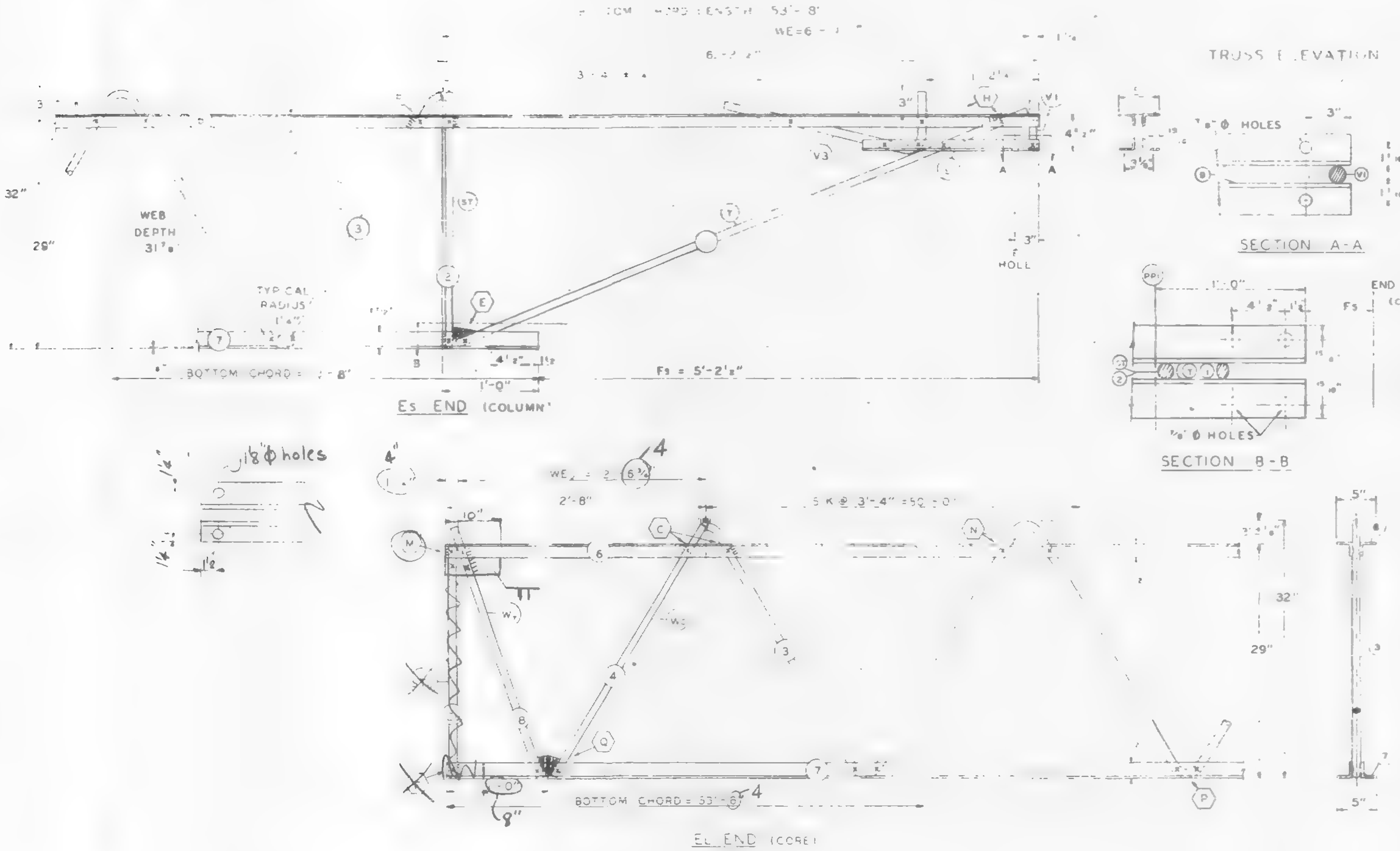
NO.	DATE	REVISION	BY
1	5-27-68	AS NOTED	[illegible]

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T10 58'-10" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible] PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 6/25/68
DRAWN BY: [illegible] DATE: FEB. 24, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY: [illegible] DATE FEB. [illegible], 1968
IN CHARGE OF PROD. DEV.
DETAILED BY: A. C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO ST210





FABRICATION REQUIRMENTS		
	DESIGN	TOLERAN
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	¼"
PANEL "K"	3'-4	± 4
OVERALL LENGTH	[illegible]	± 3/8"
WEB DEPTH	31 7/8"	±

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬)
ALL WELD DETAILS SHOWN ON SHEETS ST290
AND ST291
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R22.

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD.
ASSEMBLY BY CONTRACT WTC 223.00.

REF. DRWG.

7-AB1-8	4-1-68
7-AB1-52	2-15-68
7-AB4-50 & 50.2	10-20-67
7-AB3-2	1-3-68
7-AB1 50.5	10-20-67
7-AB1-53	4-1-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	TRUSS DATA	CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA			MK	TYPE STEEL	SIZE	LENGTH
C32T10 58105	6	A242	2"x1½"x.25"	58'-10½"	7	A242	2"x1½"x.25"	53' (8")	5	A242	.92"	93'-5¼"	15@ 3'-4"=50'-0"	10	.92"	——		—	——	——	——

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER						DOUBLE STRUT			
															MK V1			MK V3						
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T 58105	9	A242	2"x1½"x.25	[illegible]	6'-1¼"		A242	.98	6'-5"	2	A242	.92"	2'-7⅝"	A242	.98"	4⅜"	A242	.98		—	——	—	——

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE_V	VERTICAL "ST_V" STRUT				VERTICAL "ST" STRUT				END STIFFENER									WEB "WC"					WEB "WT"				
															MK V1			MK V2			MK V4												
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T 58105	9V	A36	3x2x⅜	0'-10"	2'-6¾"	2	A242	.92"	2'-4¼"			-		——	—	——	——	—	——	——	—	——	4	A242	1	.92"	3'-3½"	8	A242		.92"	2'-9"

cut

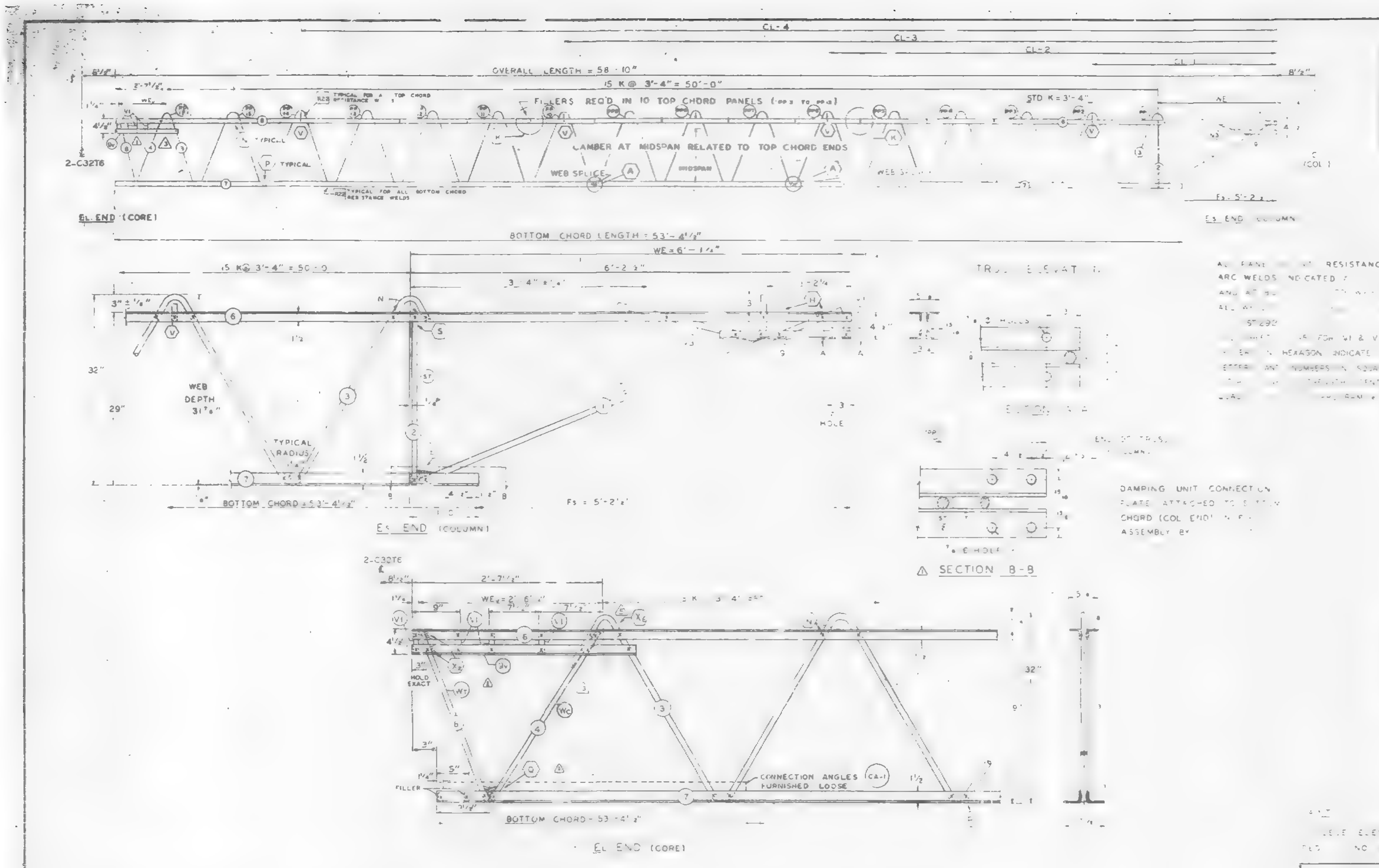
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T10 58'-10½" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY. LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-8 7-AB3-2 PLATE	
APPROVED FOR FABRICATION BY _ FOR P.O.N.Y.A	DATE	DRAWN BY L.S. DATE FEB. 24, 1968	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB. 24, 1968	IN CHARGE OF PROD. DEV
DETAILED BY A.C. WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO ST210



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 5/16"	[illegible]
DESIGN DEPTH	29"	[illegible]
PANEL "K"	3'-4"	[illegible]
OVERALL LENGTH	58'-[illegible]	[illegible]
WEB DEPTH	31 7/8"	[illegible]

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" HOLES	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T11-5810	6	A242	2"×1½"×.25	56'-10"	7	A242	2"×1½"×.25	53'-4½"	3	A242	92	94'-[illegible]	15 @ 3'-4" = 50'-0"	12	.92	—	4	92	3"	—			—

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
Es END		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T11-5810	9	A242	2"×1½"×.25	1'-10"	6'-1¼"		A242	92	6'-5"	2	A242	92	2'-4⅞"	A242	92	4⅜"	A242	92	2'-9½"	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB — LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-5"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

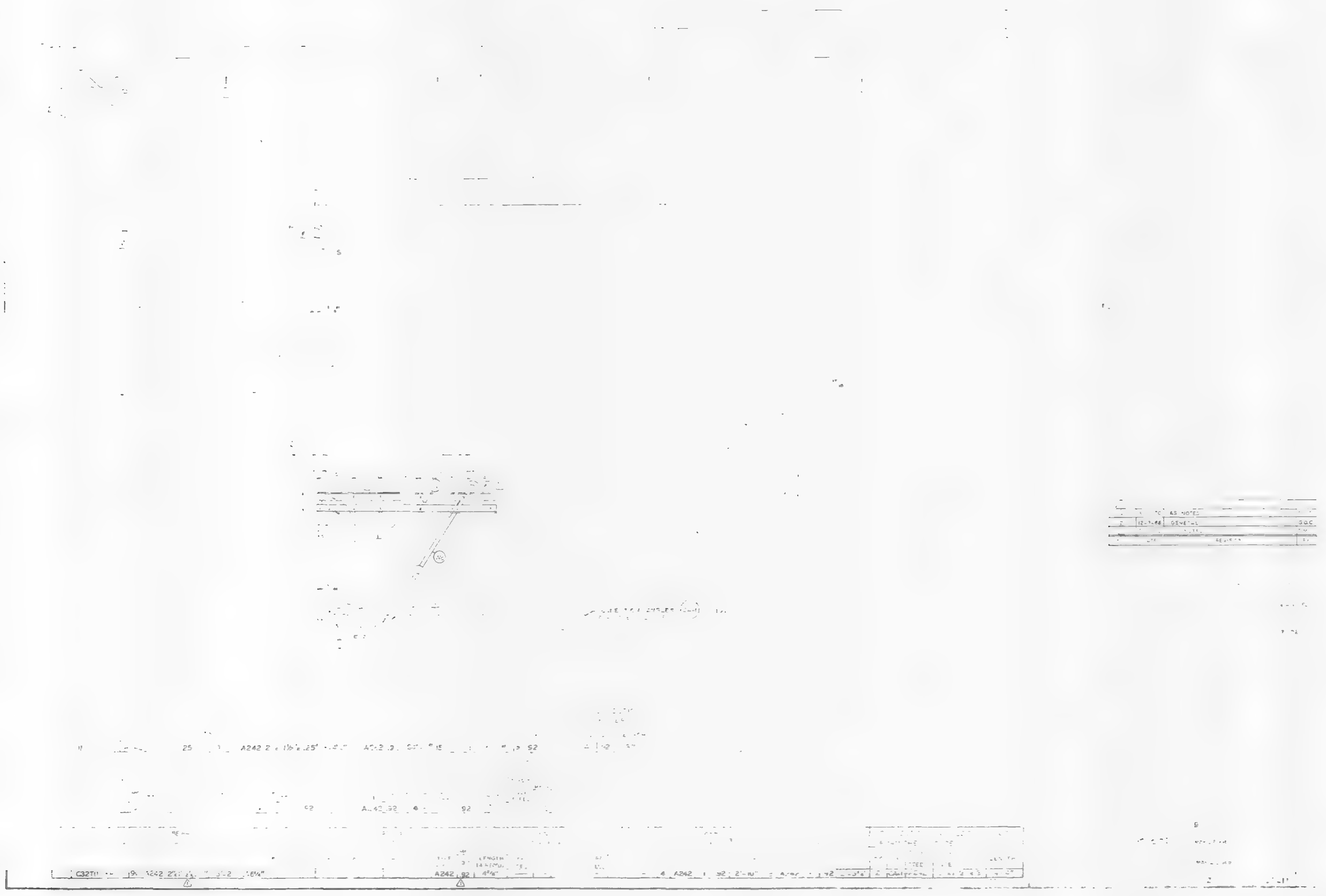
CORE END	TRUSS DESIGNATION	BEARING ANGLES				WEv	VERTICAL "STv" STRUT				VERTICAL "ST" STRUT				END STIFFENER									WEB "Wc"					WEB "Wt"					CONNECTION ANGLES (2 REQ'D) FURNISHED LOOSE				
EL END		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH (MK V1)	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
	C32T11-5810	9v	A242	2"×1½"×.31"	3'-2"	2'-6¼"	—	—	—	—	—	—	—	—	A242	92	4⅜"	—	—	—	—	—	—	4	A242	1	92	2'-10"	8	A242	1	92	2'-5¾"	2	CA-1	A242	2×½×3	4'-4"

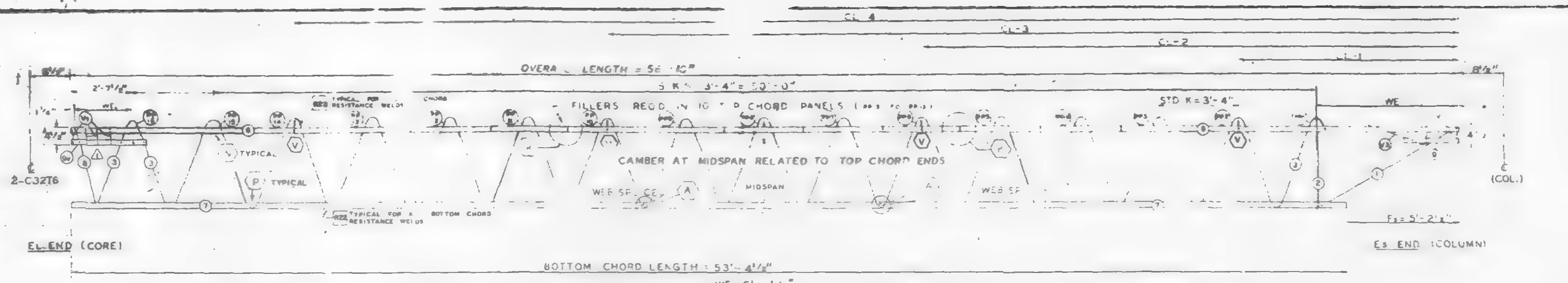
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T11 · 58'-10" OVERALL

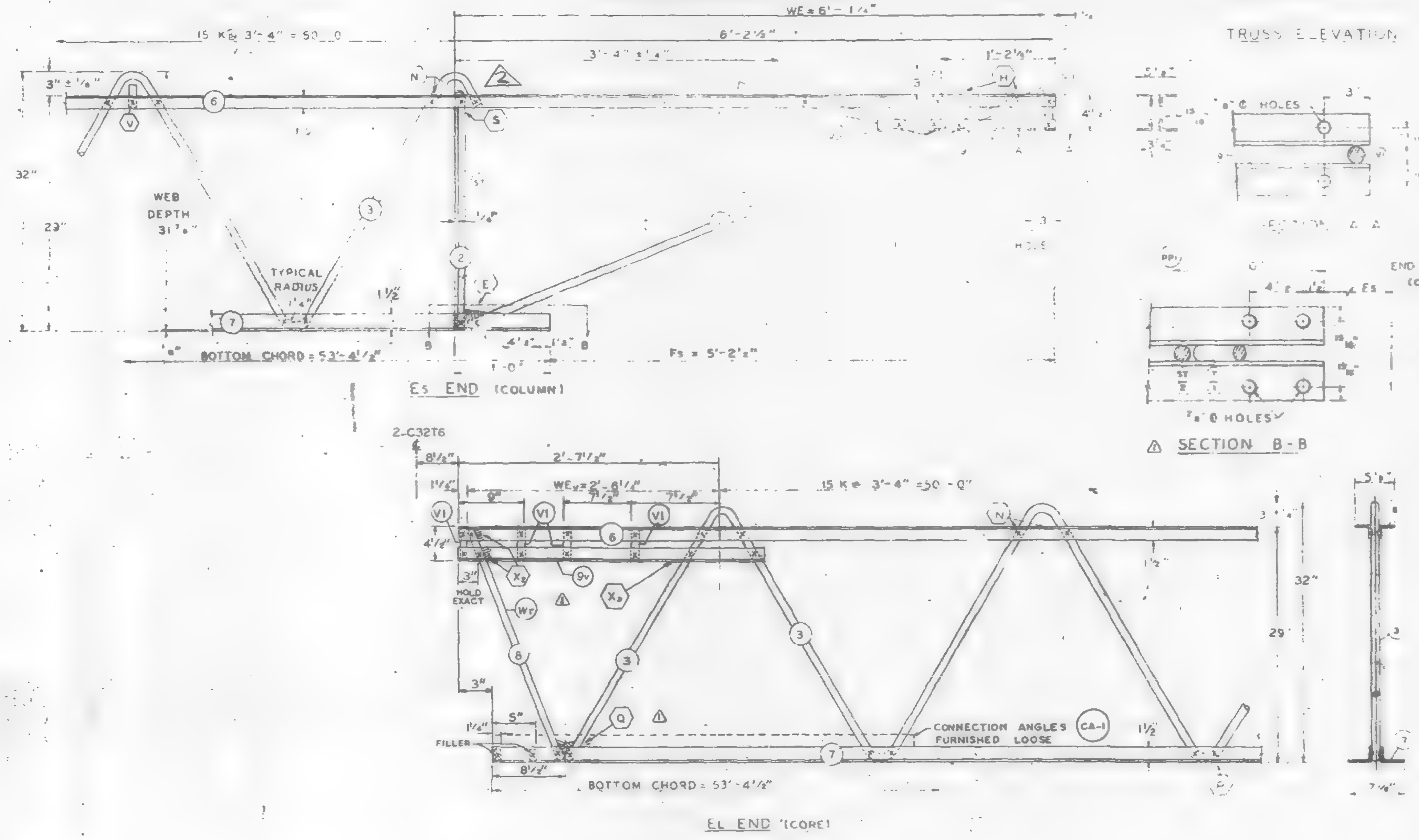
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB-9 7-AB3-2	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE	DRAWN BY L.S. DATE MAY 27, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY [illegible] DATE MAY 27, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY H. C. WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO. ST2


AS NOTED
GENERAL
G.O.C.
A242
C32T
A242
92
4⅝"



FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1⁵⁄₁₆"	± 3/8"
DESIGN DEPTH	30"	± 4"
PANEL "K"	3'-4"	± 6"
OVERALL LENGTH	58	± 3/8"
WEB DEPTH	3	± 1/4"



ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, AND ST292.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD ... IN THE QUALITY ... R22.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY ... WTC 223 ...

NO.	DATE	REVISION	BY
2	12-3-68	GENERAL	D.D.C.
1	7-1-68	AS NOTED	M.O.

REF. DRWG.

7-AB1-9	7-22-68
7-AB1-52	2-3-68
7-AB4-50	8-1-68
7-AB3-2	1-3-68
7-AB4-50.5	10-20-67
7-AB1-53	7-22-68
	7-22-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 19001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO.	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T11-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25	53'-4½"	3	A242	.92	97'-0"	15½ @ 3'-4" = 51'-8"	12	.92	—	4	.92	3"	-	—	—	—

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T11-5810	9	A242	2"x1½"x.25	1'-10"	6'-1¼"		A242	.92	6'-5"	2	A242	.92	2'-4⅞"	A242	.92	4⅜"	A242	.92	2'-9½"	-	—	—	—

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

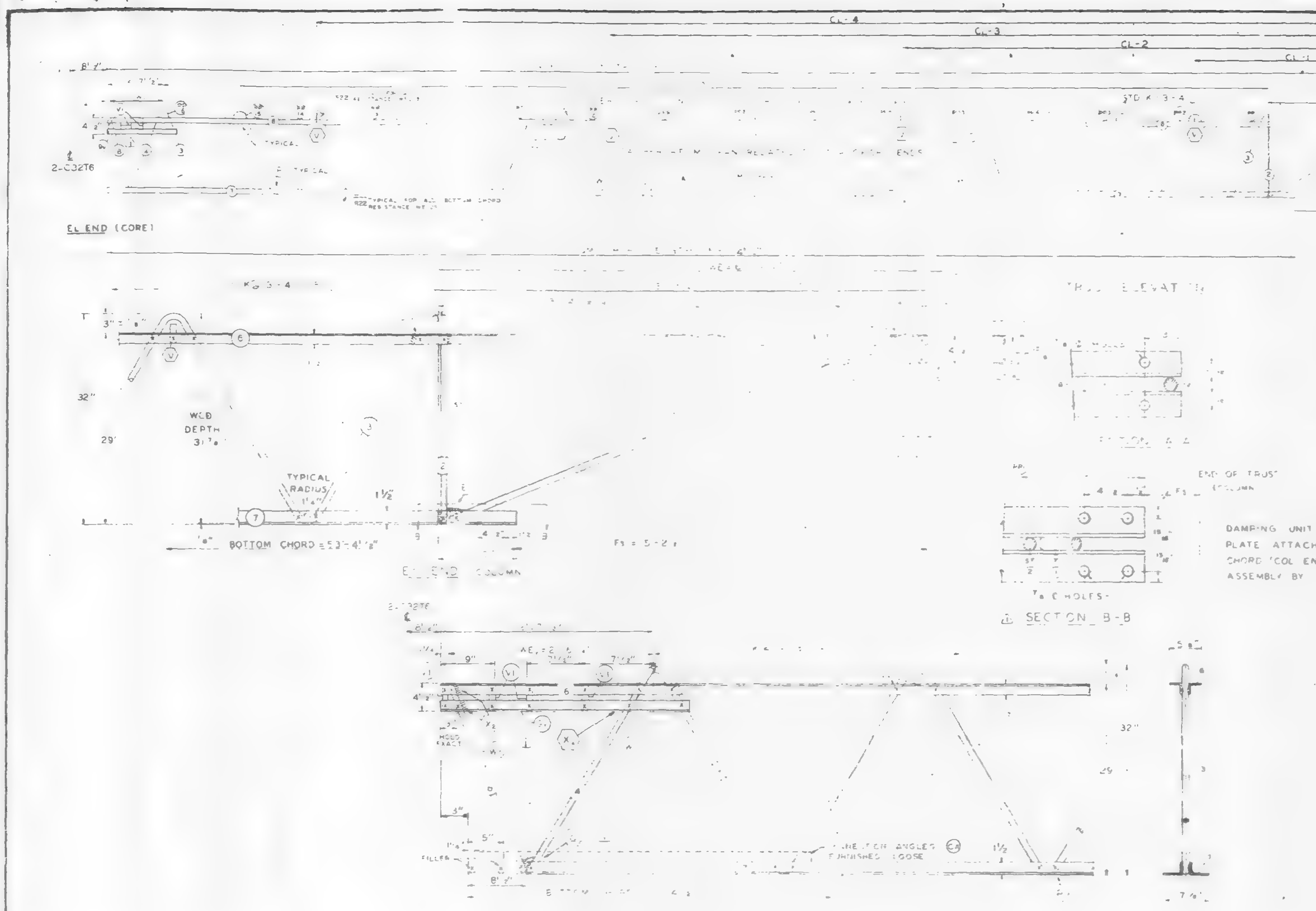
EL END TRUSS DESIGNATION	BEARING ANGLES				WEv	VERTICAL "STv" STRUT				VERTICAL "ST" STRUT				STIFFENER MK V1			STIFFENER MK V2			STIFFENER MK V4			WEB "Wc"					WEB "WT"					CONNECTION ANGLES (2 REQ'D) FURNISHED LOOSE				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH (4 REQ'D)	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
C32T11-5810	9v	A242	2"x1½"x.3"	3'-2"	1'-6¾"	-	-	-	--	—	—	—		A242	.92	4⅜"	—	—	—	—	—	—	-	—	—	—	—	8	A242	1	.92	2'-5¾"	2	CA-1	A242	2"x1½"x.31	4'-4"

STEEL TRUSS DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T11 58'-10" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY. LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-9 7-AB3-2	PLATE
APPROVED FOR FABRICATION FOR PONYA	DATE 12/9/68	DRAWN BY: L.S. DATE MAY 27, 1968	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY J.B. ... DATE MAY 27, 1968	IN CHARGE OF PROD. DE.
LACLEDE STEEL CO.		FABRICATION CONT. NO. WTC 221	SHEET NO. ST211



FABRICATION REQUIREMENTS

ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL AS SHOWN ON SHEETS ST290, ST291,
AND ST292
LETTERS IN HEXAGON INDICATE WELD DETAIL (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM # R22

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY

△	7-1-68	AS NOTED	T.M.C.
NO.	DATE	REVISION	BY

REF. DRWG

PAINT

LACLEDE ELECTROCOAT
REF. NO. 5001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	
C32T11-5810	6	A242	2"x1 1/2"x.25	58'-10"	7	A242	2"x 1 1/2"x .25	53'-4 1/2"	A242 .92 … 4 … 2 .92 … .92

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				STIFFENER MK V1			STIFFENER MK V3		
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
		C32T11-5810	9	A242	2"x1 1/2"x.25	1'-10"	6'-1 1/4"	1	A242	.92	6'-5"	2	A242	.92	2'-7 7/8"	A242	.92	4 5/8"	A242	.92	2-9

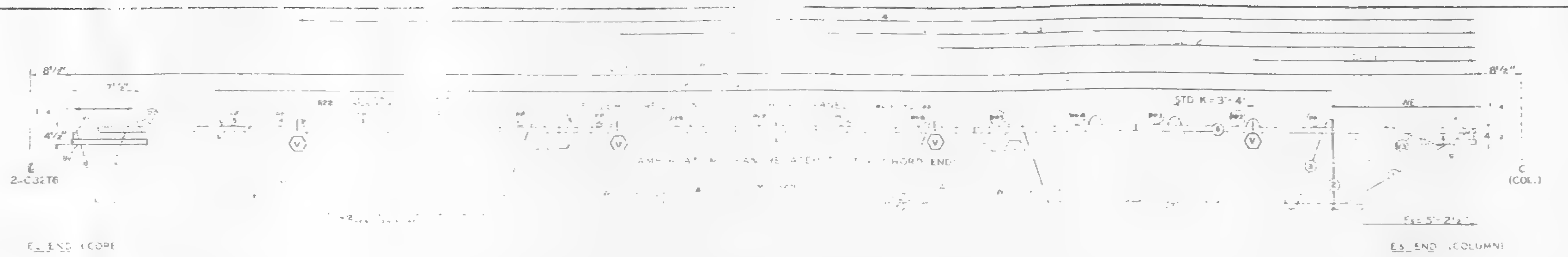
CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
5' 6 1/2"	22'-10 1/2	36'-2 1/2	49'-6 1/2	5'-2 1/2

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WE V	VERTICAL "ST" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			MK V2			MK V4			WEB "Wc"					WEB "W7"					CONNECTION ANGLES (2 REQ'D) FURNISHED LOOSE					
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH (4 REQ'D)	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH	NO	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
		C32T11-5810	9v	A242	2"x1 1/2"x.31 △	3'-2"	2'-6 1/4"	-	-		-	-	-	-		A242	.92	4 3/8" △	—	—	—	—	—	—	4	A242	1	.92	3'-0 1/2"	8	A242	1	.92	2'-5 3/4"	2	CA	A242	2"x1 1/2"x.31	4'-4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

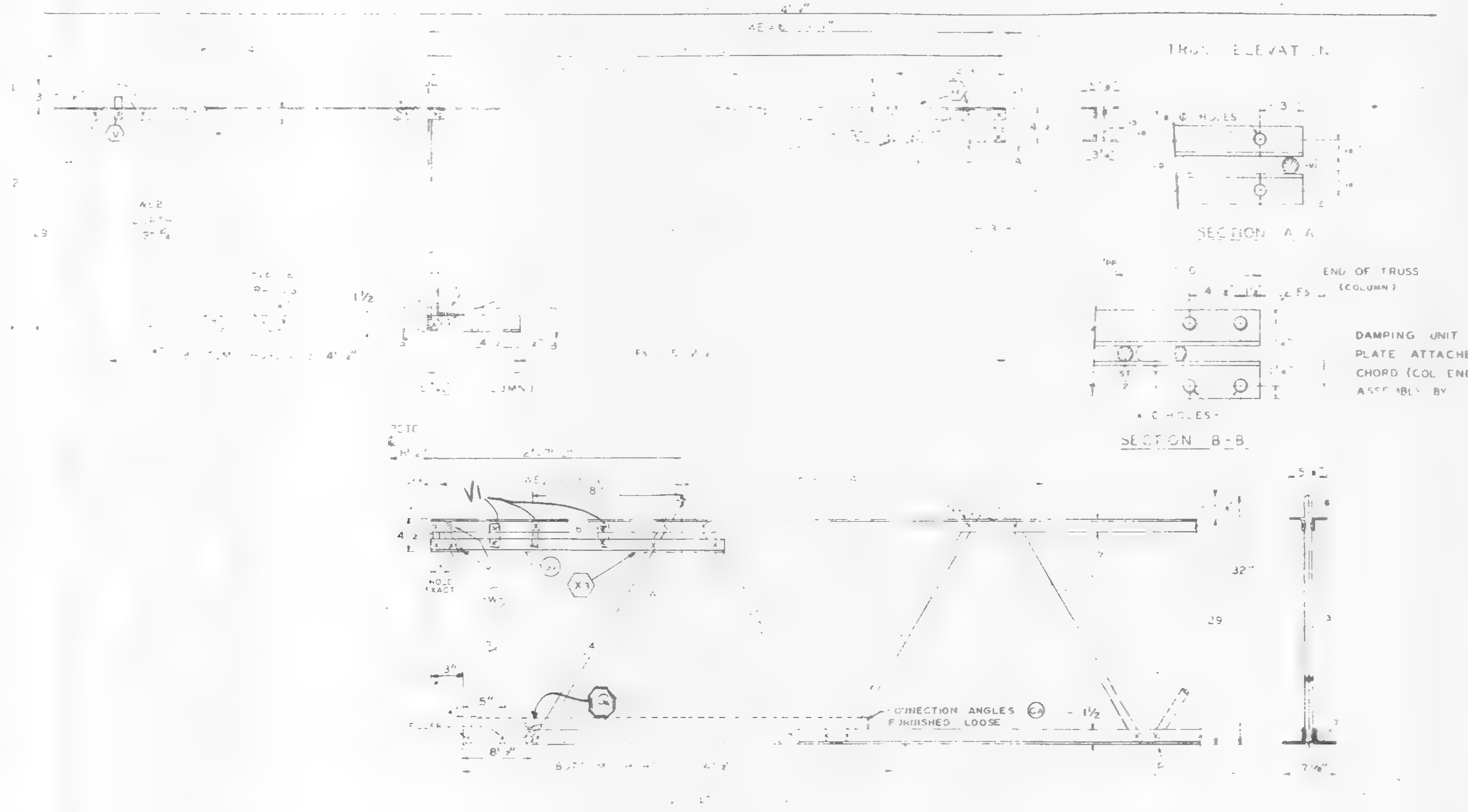
FLOOR TRUSS C32T11 58'-10" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-ABL9 7-ABB-2 PLATE
APPROVED FOR FABRICATION BY JW FOR PONYA DATE 7/9/68
DRAWN BY DATE MAY 27, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.R. DATE MAY 27, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A C WEBER
FABRICATION CONT. NO. WTC 221
SHEET NO. ST211



FABRICATION REQUIRMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 5/16"	± 3 8
DESIGN DEPTH	29"	± 4
PANEL "K"	3'-4"	± 4
OVERALL LENGTH	58'	± 3 8"
WEB DEPTH	8"	± [illegible]



ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES ( )
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291,
AND ST292.
SEE SHEET ST295 FOR [illegible] DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. A.
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, ie. R22.

REF. DRWG.
7-AB1-53

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

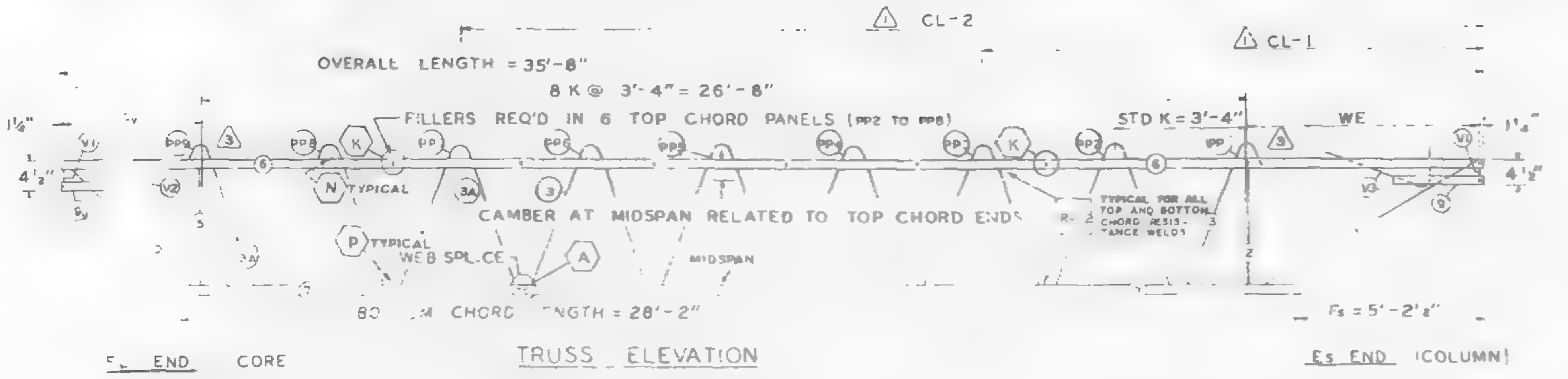
CL-1	CL-2	CL-3	CL-4	Fs
[illegible]	[illegible]	15' 2½	49' 6½	5' 2½

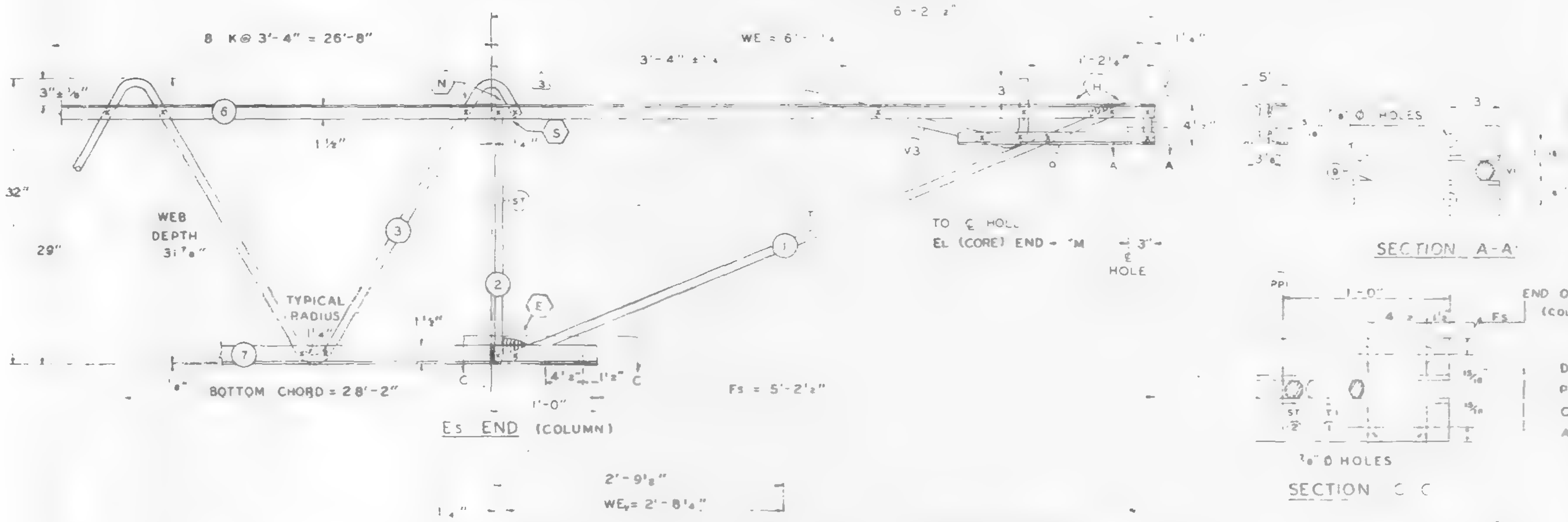
WEB "Wt" MK	TYPE STEEL	PCS	DIA	LENGTH	CONNECTION ANGLES (2 REQ'D) FURNISHED LOOSE NO	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
8	A242	1	.92	2'-5¾"	2	CA	A242	2"x1½"x.31	4-4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T11 58'-10" OVER L
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB 9 7-AB3-2 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE
DRAWN BY: [illegible] DATE: MAY 27, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY: J.R. PAUL DATE MAY 27, 1968
IN CHARGE PROD. DEPT.
LACLEDE STEEL CO
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET ST2[illegible]

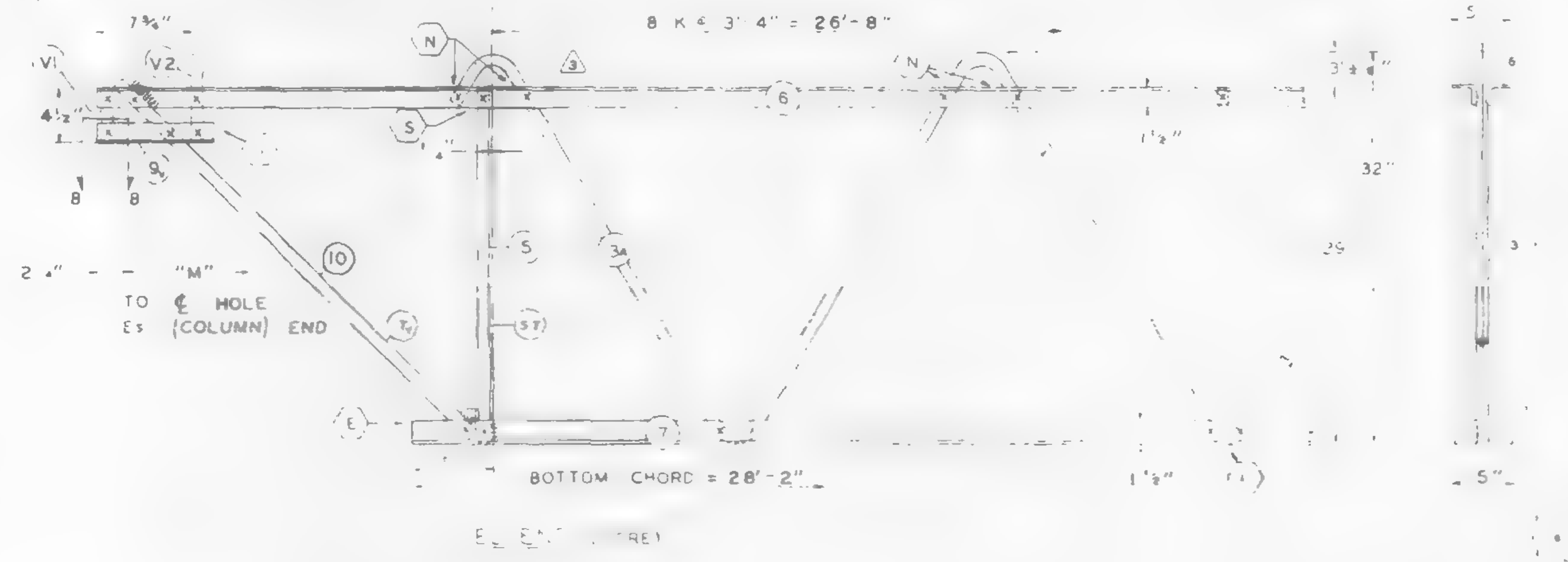


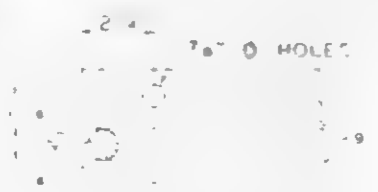


ALL PANEL POINTS RESISTANCE WELDED EXC. ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291.

SEE SHEET ST295 FOR V1, V2, & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAILS, ie., (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-22.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.





FABRICATION REQUIRMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1/4"	-1/4" +3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	35'-8"	± 8"
WEB DEPTH	31 7/8"	± 1/4"

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	TRUSS
C32T12-358	6	A24.	2"x1½"x.025	35'-8"	7	A242	2x1½"x.025	28'-2"	3A / 3	A242 / A242	0.98 / 0.92	16'-0¼" / 34'-8½"	2½ 3'-4" = 8'-4" / 5½ 3'-4" = 18'-4"	6	.092	35'-2¾"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL ST STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL ST STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
C32T12-358	9	A24.	2"x1½"x.025	1'-10"	6-1¼"		A242	.098	6'-5"	2	A242	.092	2'-4⅞"	A242	.098	4⅜	A242	.098	2'-9½"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL Tv STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL ST STRUT MK	TYPE STEEL	DIA	LENGTH	END ER TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	WEB MK	TYPE STEEL	PCS	DIA	LENGTH	WEB MK	TYPE STEEL	PCS	DIA	LENGTH
C32T12-358	9	A242	2"x1½"x.025	10"	2'-8¼"	10	A242	.098	3'-6¼"	5	A242	.098	2'-4⅞"	A242	.098	4¾	A242	.098	7⅜"	—	—											

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
1'-10½	26'-1½"	—	—	5'-2½"

NO	DATE	REVISION	BY
3	11-20-68	AS NOTED	G.D.C.
2	6-20-68	CAMBER, END STIFFENER, WEB	T.M.C.
1	3-19-68	WELD DETAIL, CL DIMENSIONS, CAMBER	J.R.P.

REF DRWGS.

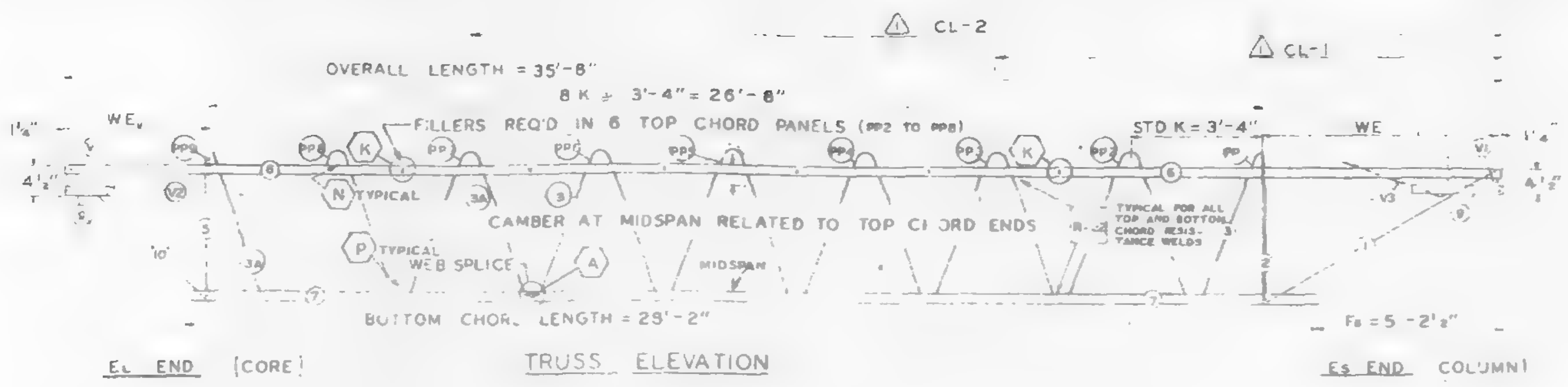
7-A81-11	7-22-68
7-A81-52	7-1-68
7-A84-50	8-1-68
7-A81-51	10-15-68
7-A84-50 S	10-20-67

PAINT
LACLEDE ELECTROCOAT
REG NO 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T12 35'-8" OVERALL
WORLD TRADE CENTER TOWERS A-B

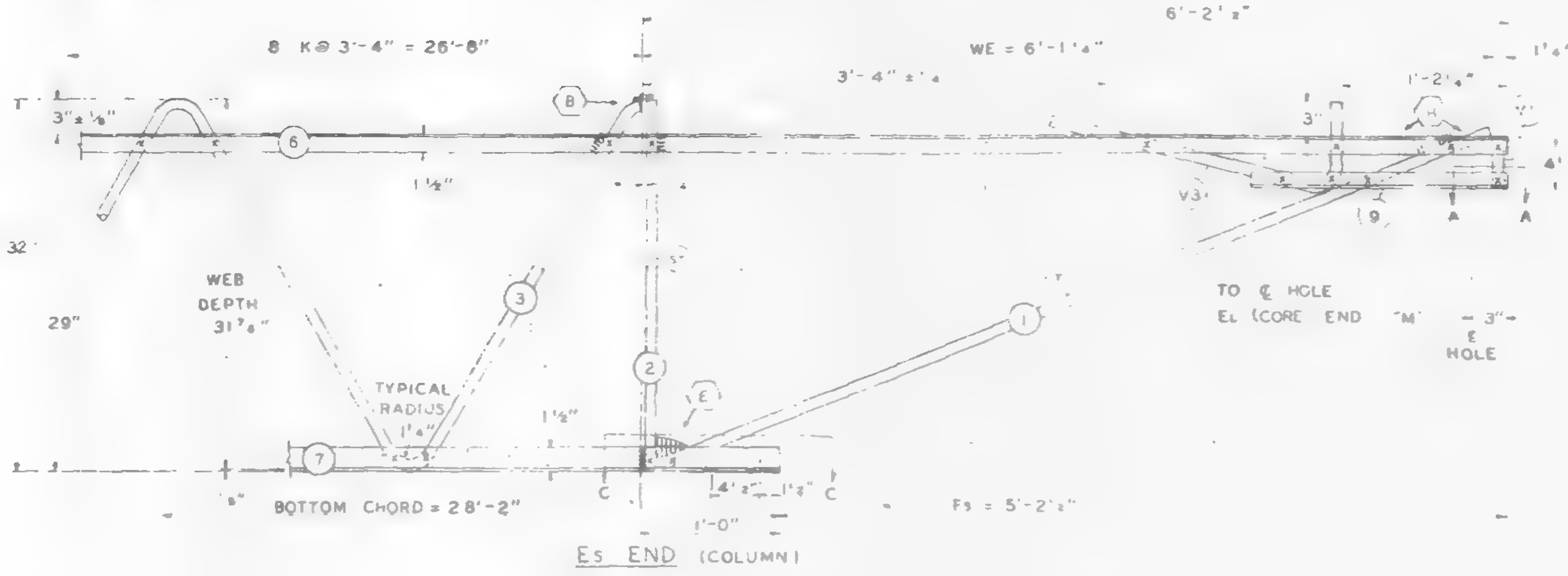
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-A81 PLATE
APPROVED FOR FABRICATION BY FOR PONYA — DATE 3/19/68
DRAWN BY — DATE FEB 26, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE
CHECKED BY J.B. PAUL — DATE FEB 28, 1968
IN CHARGE OF PROD DEV
DETAILED BY A C WEBER
FABRICATION CONT NO WTC 221
SHEET NO ST212

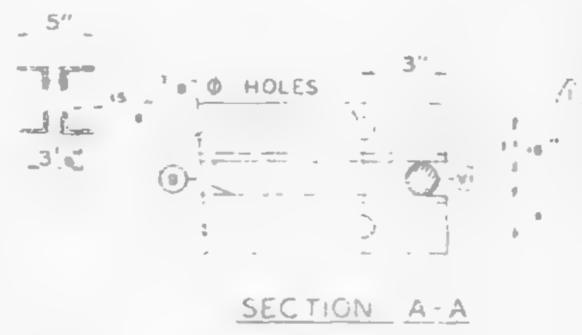


FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1/4"	1/4" -3/8"
DESIGN DEPTH	3"	± 1/4"
PANEL "K"	4"	± 1 4"
OVERALL LENGTH	5' 8"	± /8
WEB DEPTH	31 7 8"	/4"

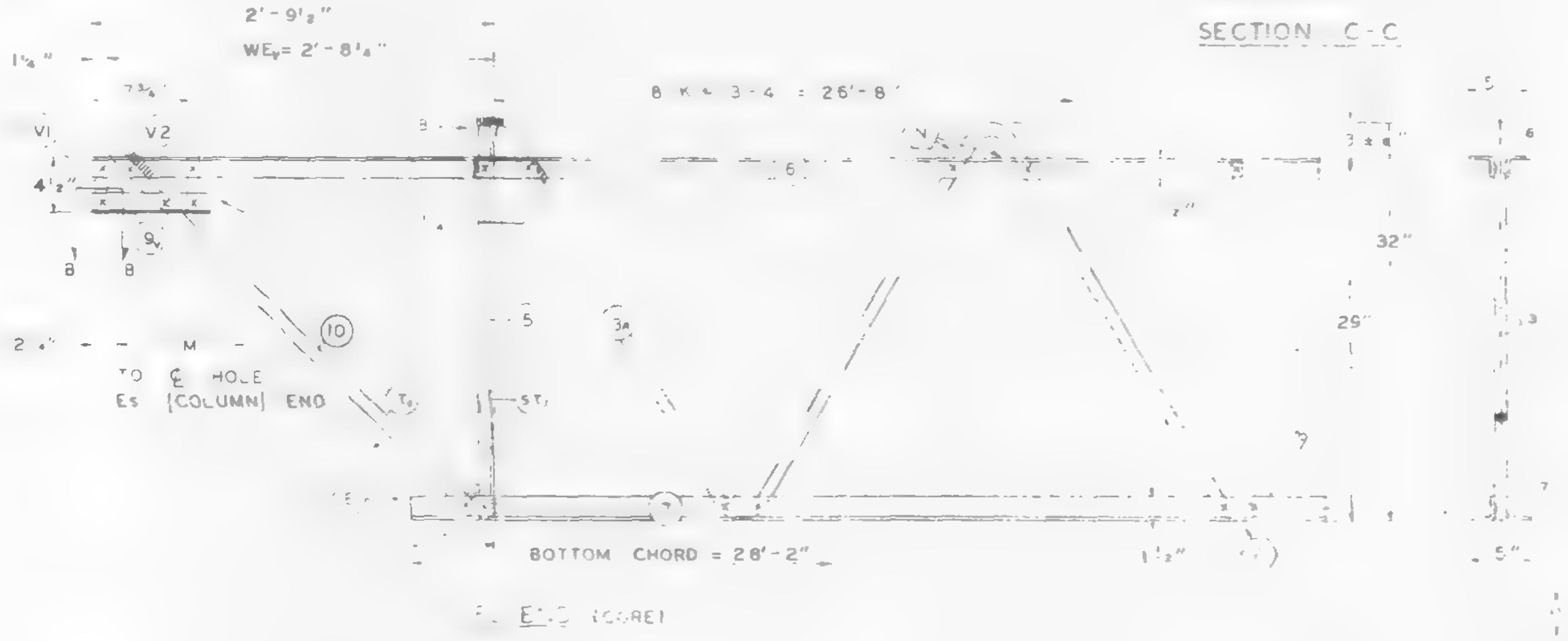
ALL PANEL POINTS RESISTANCE WELDED. ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290 AND ST291

SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. R-22.





DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD COL END IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



NO	DATE	REVISION	BY
2	6-20-68	CAMBER, END STIFFENER, WEB	T.M.C.
1	3-19-68	WELD DETAIL, CL DIMINSIONS, CAMBER	J.R.P.

REF DRWGS.

7-AB1-11	4-1-68
7-AB1-52	2-15-68
7-AB4-50 & 50.2	10-20-67
7-AB1-53	4-1-68
7-AB4-50.5	10-20-67

PAINT
LACLEDE ELECTRO-COAT

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	TRUSS DATA	
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA			
C32T12-358	6	A242	2"x1½"x.025	35'-8"	7	A242	2"x1½"x.025	28'-2"	3A 3	A242 A242	0.98 0.92	35'-6⅞" 34'-3⅛"	2½ @ 3'-4" = 8'-4" 5½ @ 3'-4" = 18'-4"	6	0.92	35'-2¾"		

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
12'-10½"	26'-2½"	—	—	5'-2½"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
	C32T12-358	9	A242	2"x1½"x.025	1'-10"	6'-1¼"	[illegible]	A242	.098	6'-5"	2	A242	.092	2'-7⅞"	A242	.093	4⅜	A242	.098	2'-9½"

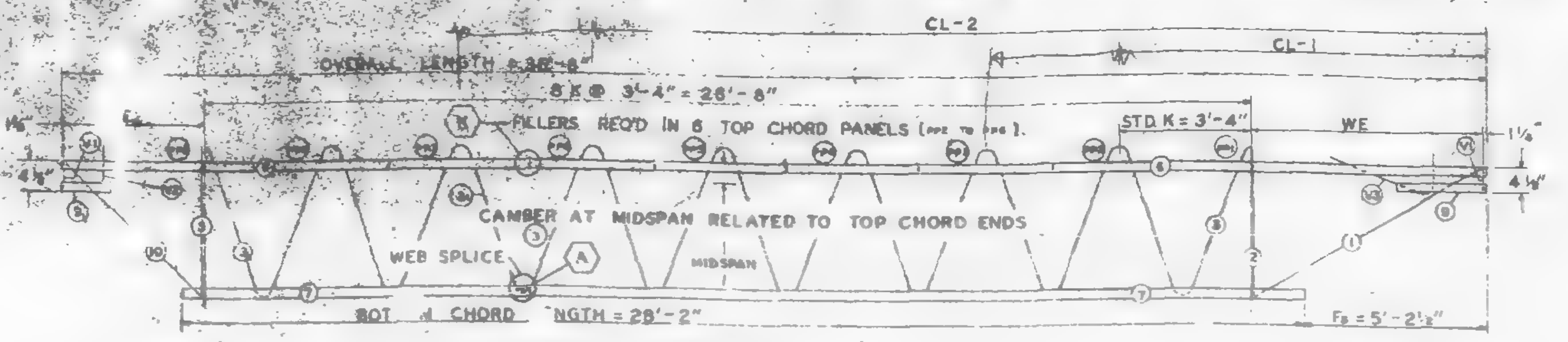
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL ST STRUT				STIFFENER MK V1			STIFFENER MK V2			STIFFENER MK V4			WEB "DS10"					WEB "DS5"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T12-358	9	A242	2"x1½"x.025	10"	2'-8¼"	3	A242	.098	3'-6¼"	5	A242	.098	2'-7⅞"	A242	.098	4½"	A242	.098	7⅜	—	—	—	—	—	—	—	—	—	—	—	—	—

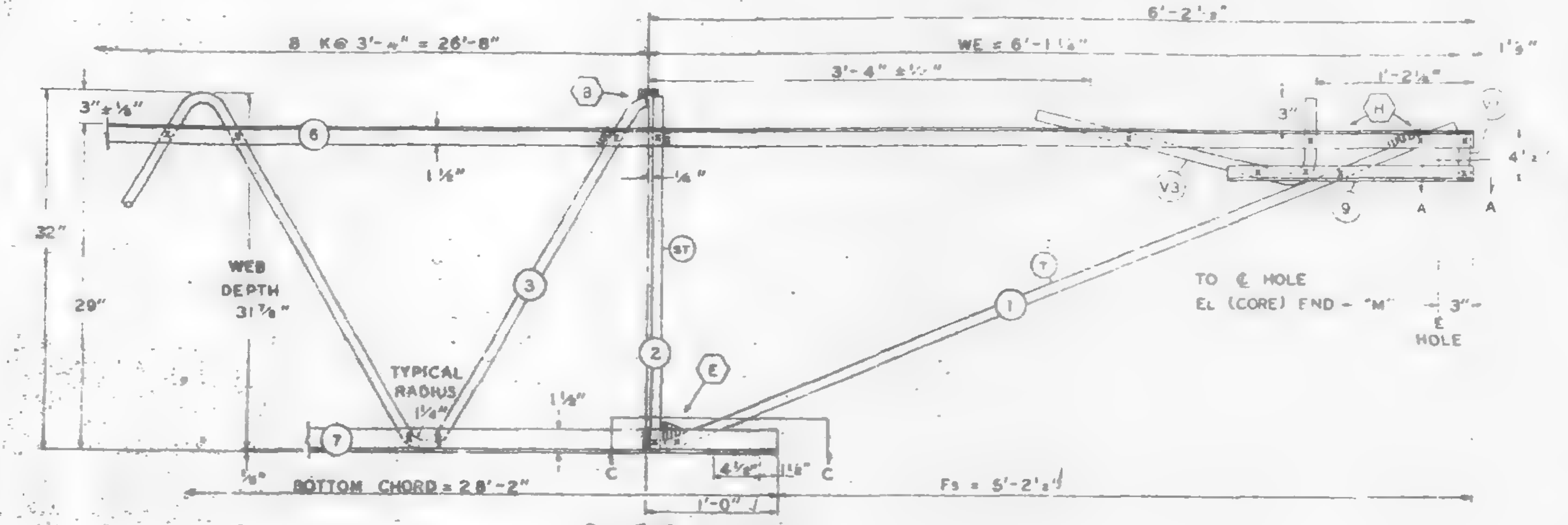
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T12 35'-8" OVERALL
WORLD TRADE CENTER TOWERS A-B

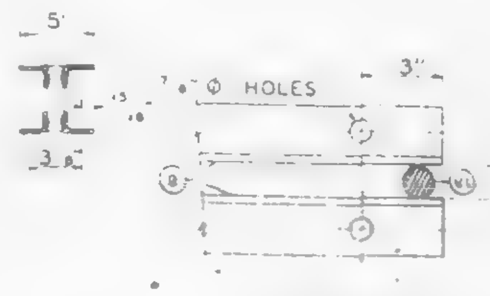
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-11	PLATE
APPROVED FOR FABRICATION BY JW FOR P.O.N.Y.A.	DATE 6/25/68	DRAWN BY L.A. DATE FEB 24, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY J.R. PAUL DATE FEB 24, 1968	IN CHARGE OF PROD DEV
DETAILED BY A C WEBER		FABRICATION CONT NO W T C 221	SHEET NO ST212



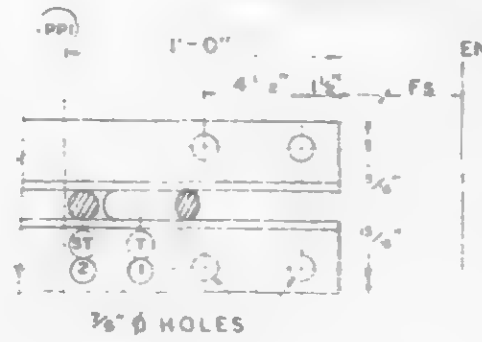
TRUSS ELEVATION



Es END (COLUMN)

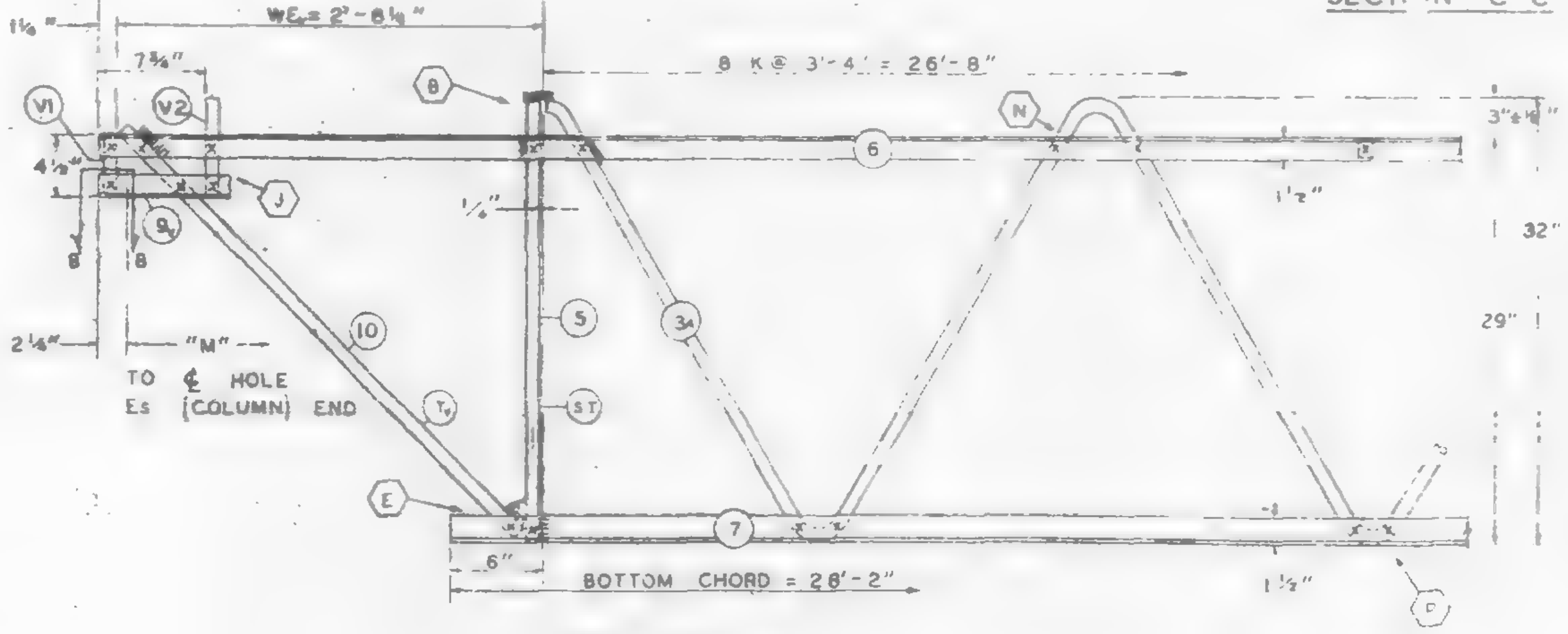


SECTION A-A

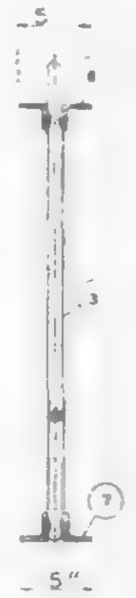


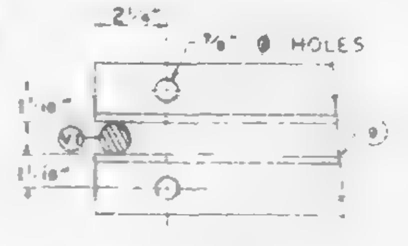
SECTION C-C

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD
ASSEMBLY BY CONTRACT WTC 223 00



EL END (CORE)





SECTION B-B

FABRICATION REQUIRMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1/2"	± 3/8"
DESIGN DEPTH	29"	± /4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	35'	± 3/8"
WEB DEPTH	3"	± 1/ "

ALL PANEL POINTS RESISTANCE WELDED (×).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290
AND ST291.
BOXED LETTERS INDICATE WELD DETAIL, ie., (A).

REF DRWGS

7-AB1-11	2-15-68
7-AB1-52	2-15-68
7-Ad4-50 & 50.2	10-20-67
7-AB1-53	1-3-66
7-AB4-50 5	10-20-67

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	TRUSS DATA	
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA			
C32T12-35B	6	A242	2"x1½"x.025	35'-8"	7	A242	2"x1½"x.025	28'-2"	3A 3	A242 A242	0.92 0.92	5'-8⅞" 34'-3⅛"	2½ @ 3'-4" = 8'-4" 5½ 3'-4" = 18'-4"	6	0.92	35'-2¾"		

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
	C32T12-35B	9	A242	2"x1½"x.025	1'-10"	6'-1¼"	1	A242	0.98	8'-5"	2	A242	0.98	2'-7⅞"	A242	0.98	4⅜"	A242	0.98	2'-9½"

CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	—	—	5'-2½"

12-10½

CORE END

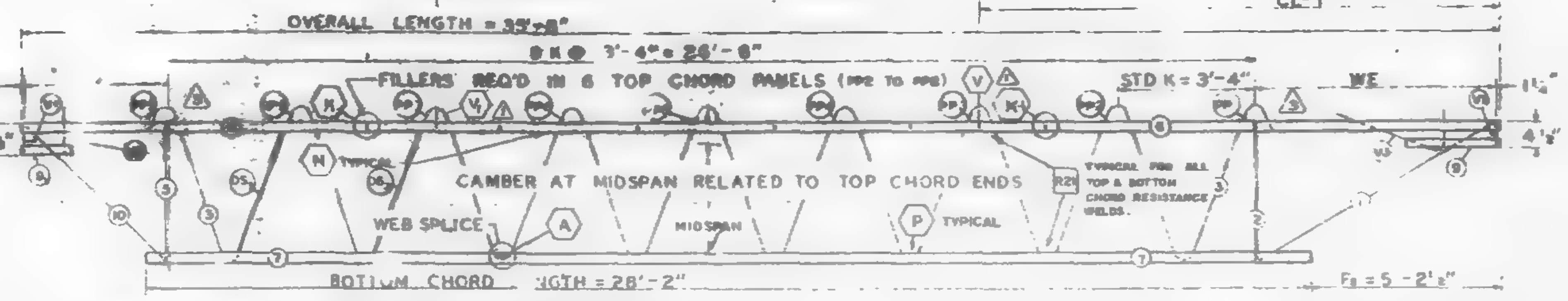
EL END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				STIFFENER MK. V1			STIFFENER MK. V2			STIFFENER MK. V4			WEB "DS10"					WEB "DS5"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	[illegible]T12-35B	[illegible]	A242	2"x1½"x.025	10"	2'-8¼"	10	A242	0.98	1'-6¼"	5	A242	0.98	2'-4⅜"	A242	0.98	4⅜"	A242	0.9[illegible]	7⅝"	—	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS - C32T12 35'-8" OVERALL
WORLD TRADE CENTER TOWERS A-B

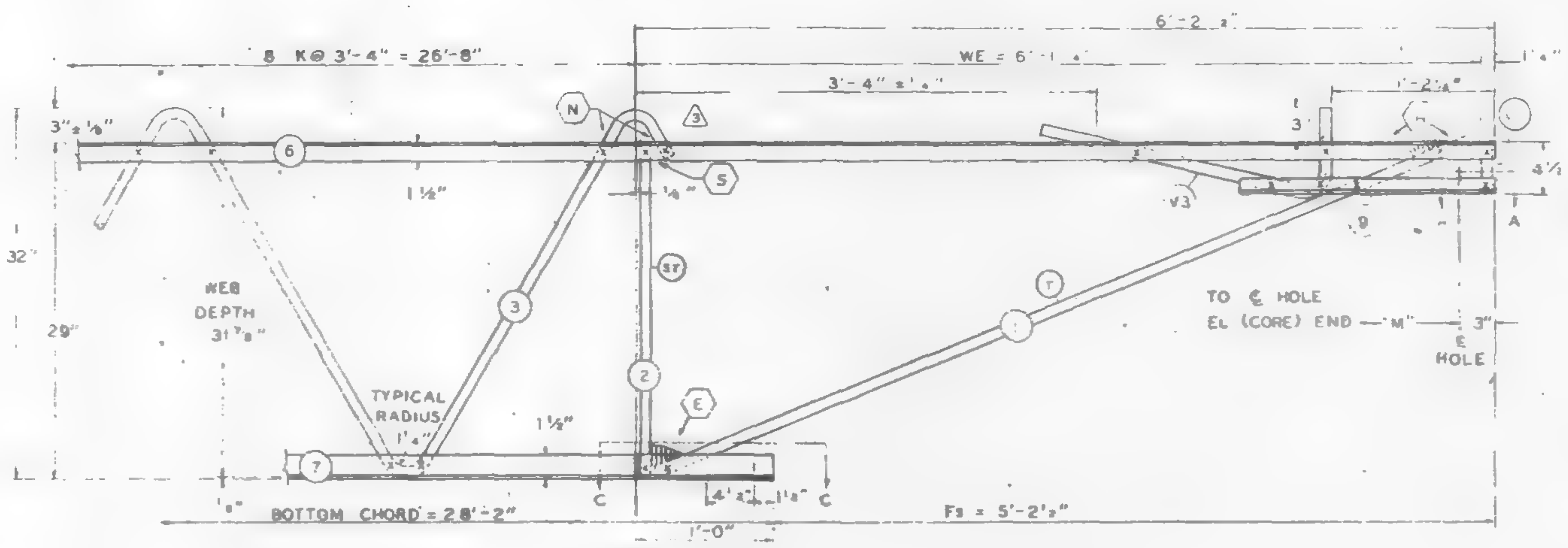
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-11 PLATE ___
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A. DATE ___
DRAWN BY: L.A. DATE: FEB. 24, 1968
APPROVED FOR FABRICATION BY: ______ FOR FABRICATOR DATE ___
CHECKED BY: J.E. [illegible] DATE: FEB. 24, 1968
IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.
DETAILED BY: A.C. WEBER
FABRICATION CONT. NO W.T.C 221
SHEET NO. ST212

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN △1	7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± [illegible]
OVERALL LENGTH	35'-8"	± 3/8"
WEB DEPTH	31"	± 1/4"

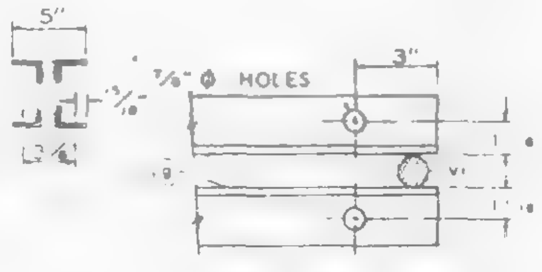


EL END (CORE) TRUSS ELEVATION Es END (COLUMN)

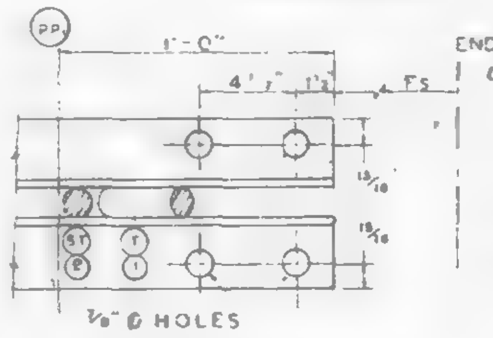
ALL PANEL POINTS RESISTANCE WELDED. ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291 △1 AND ST292. SEE SHEET ST295 FOR V1, V2, & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R21.



Es END (COLUMN)

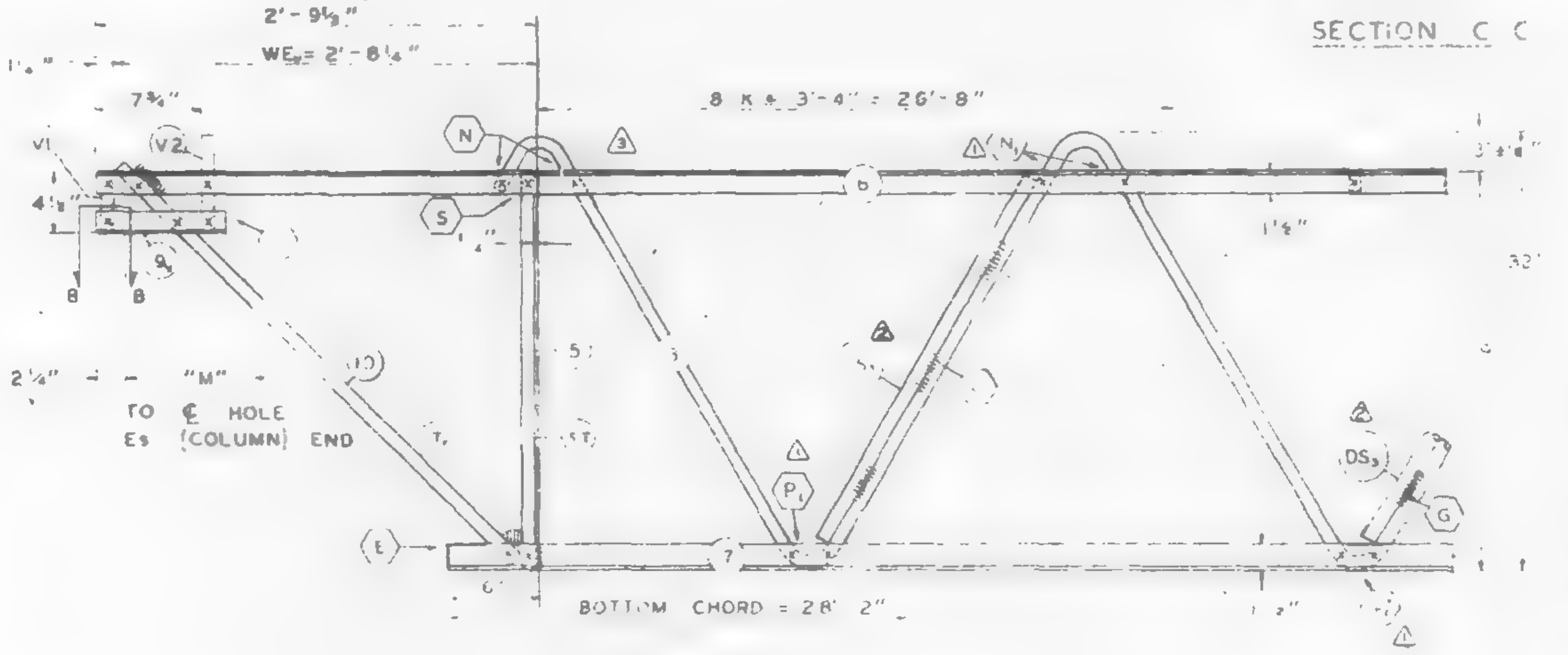


SECTION A-A

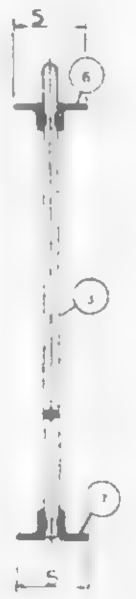


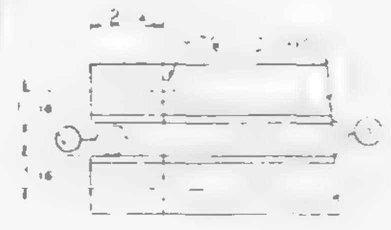
SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



EL END (CORE)





NO	DATE	REVISION	BY
△3	11-20-68	AS NOTED	G.D.C.
△2	7-23-68	MARK DS_2 LENGTH	T.M.C.
△1	6-22-68	AS NOTED	T.M.C.

△3 REF DRWGS

7-AB1-12	7-22-68
7-AB1-52	8-15-68
7-AB4-50	8-1-68
7-AB1-53	7-22-68
7-AB4-50S	10-20-67

PAINT
LACLEDE ELECTROCOAT
RET [illegible]

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		M HOLES	CONNECTION FILLERS △1		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH △3	NO OF K	NO	DIA		NO	DIA	LENGTH
[illegible]3T13-358	6	A242	2"×1½"×.025	35'-8"	7	A242	2"×1½"×.025	28'-2"	3	A242	.098	50'-8¾"	8 @ 3'-4" = 26'-8"	6	0.98	35'-2¾"	2	.98	3"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3		
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH △3	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
		[illegible]3T13-358	[illegible]	[illegible]	2"×1½"×.025	[illegible]	6'-1¼"		A242	.098	6'-5"	2	A242	.098	2'-4⅜"	A242	.098	4⅝"	A242	.098	2'-9½"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WE_v	DIAGONAL "T_v" STRUT				VERTICAL "ST_v" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "DS_{10}"					WEB "DS_5"					DOUBLE STRUT DS_2				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH △3	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LGT.	MK	PCS	TYPE STEEL	DIA	LENGTH △2
		[illegible]32T13-358	9	A242	2"×1½"×.025	10"	2'-8¼"	0	A242	.098	3'-6¼"	5	A242	.098	2'-4⅞"	A242	.098	4⅝"	A242	.098	7⅜"	—	—	—		—	—		—		—	—	—	—	DS_2	2	A242	.75	2'-6¾"

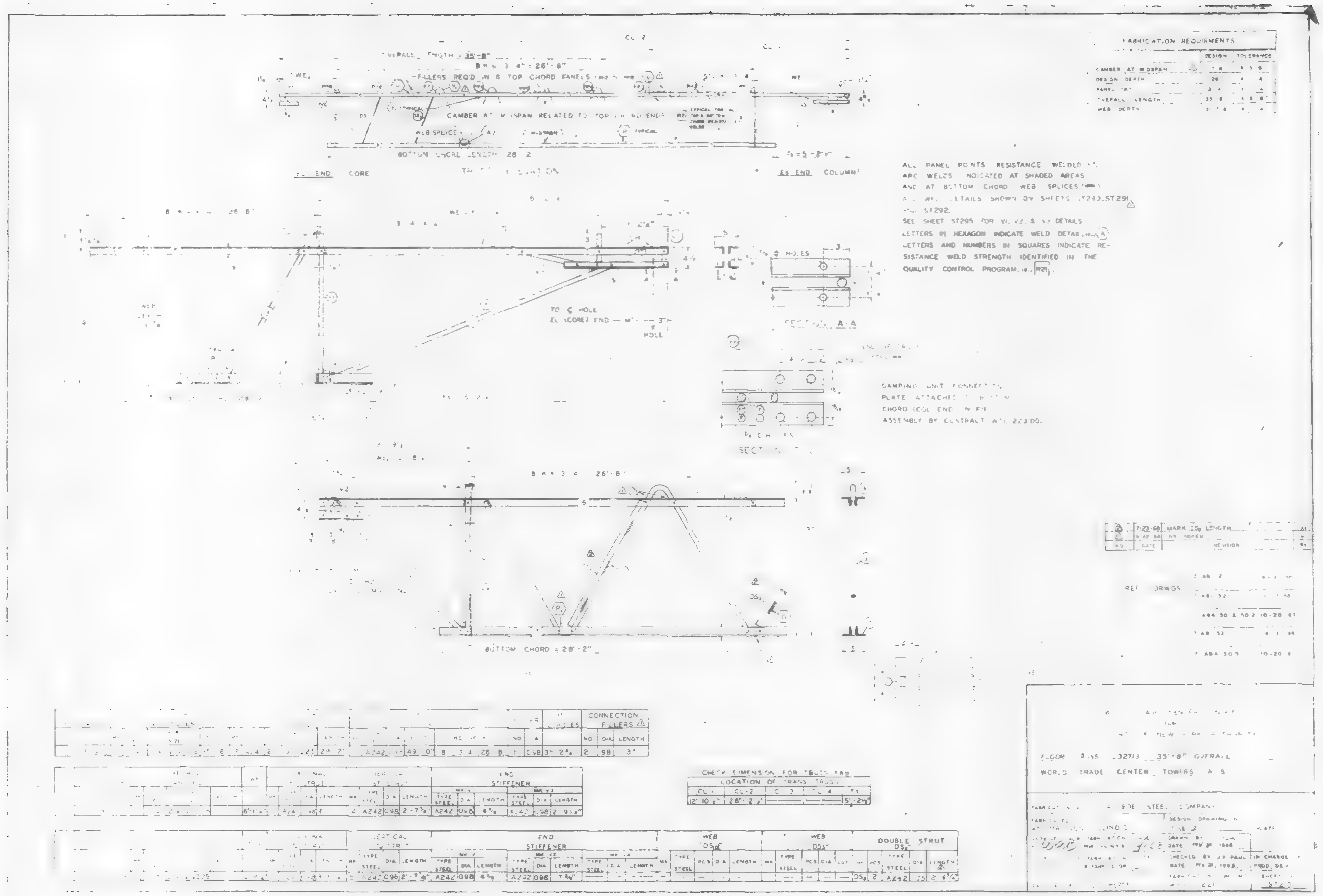
CHECK DIMENSION FOR TRUSS FAB

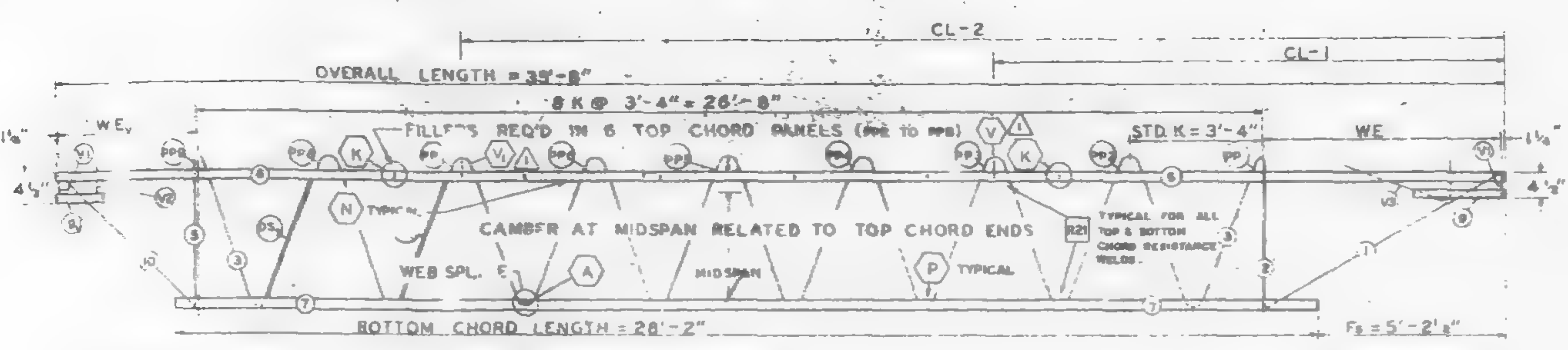
LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10½"	26'-2½"	—	—	5'-2½"

[illegible] TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T13 35'-8" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB-12 DATE
APPR FOR FABRICATION FOR PONYA [signature] DATE 12/9/68
DRAWN BY [illegible] DATE FEB 28, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J.P. PAUL DATE FEB 28, 1968
IN CHARGE OF PROD. DEV
DETAILED BY [illegible]
FABRICATION CONT. NO W.T.C. 221
SHEET NO ST213

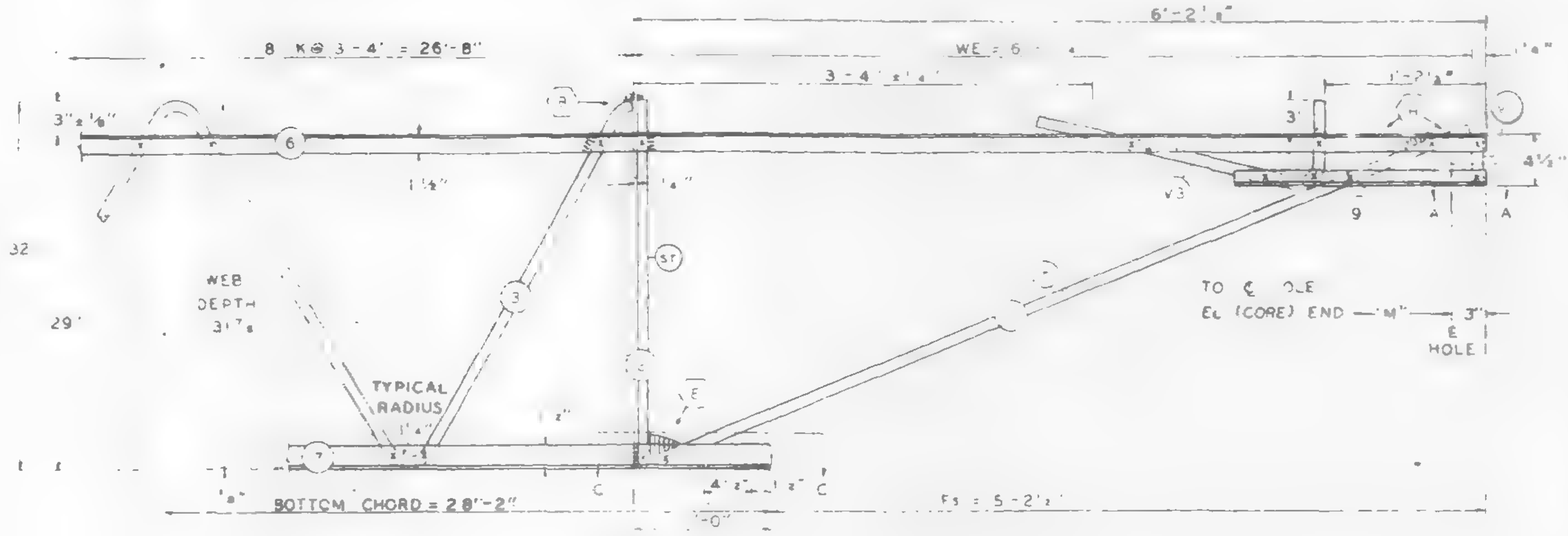

FABRICATION REQUIREMENTS
CAMBER AT MIDSPAN
DESIGN DEPTH
OVERALL LENGTH
WEB DEPTH
FILLERS REQ'D IN 8 TOP CHORD PANELS
CAMBER AT MIDSPAN RELATED TO TOP CH. RD ENDS
WEB SPLICE
BOTTOM CHORD LENGTH
ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM
TO ⊈ HOLE
SECTION A-A
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD
ASSEMBLY BY CONTRACT
BOTTOM CHORD = 28'-2"
REF DRWGS
CONNECTION FILLERS
CHECK DIMENSION FOR
LOCATION OF TRANS TRUSS
END STIFFENER
WEB
DOUBLE STRUT
FLOOR TRUSS 32T13 35'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B
STEEL COMPANY
DESIGN DRAWING
DRAWN BY
DATE
CHECKED BY J.R. PAUL
IN CHARGE
PROD. DEPT.
SHEET



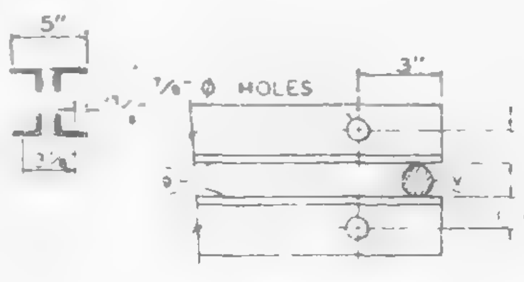
Ec END (CORE) TRUSS ELEVATION Es END (COLUMN)

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN ⚠1	7/8"	3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3' 4"	± 1/4"
OVERALL LENGTH	[illegible]	± 3 8"
WEB DEPTH	31 7/8"	± 4"

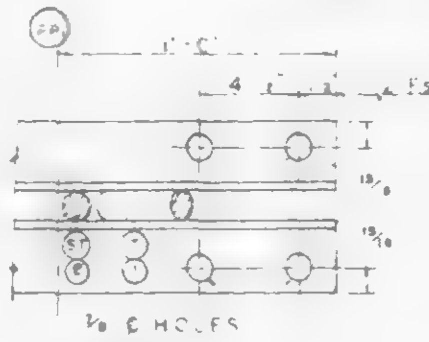
ALL PANEL POINTS RESISTANCE WELDED ⁕1.
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291 ⚠1 AND ST292.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie...
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie... [R21].



Es END (COLUMN)

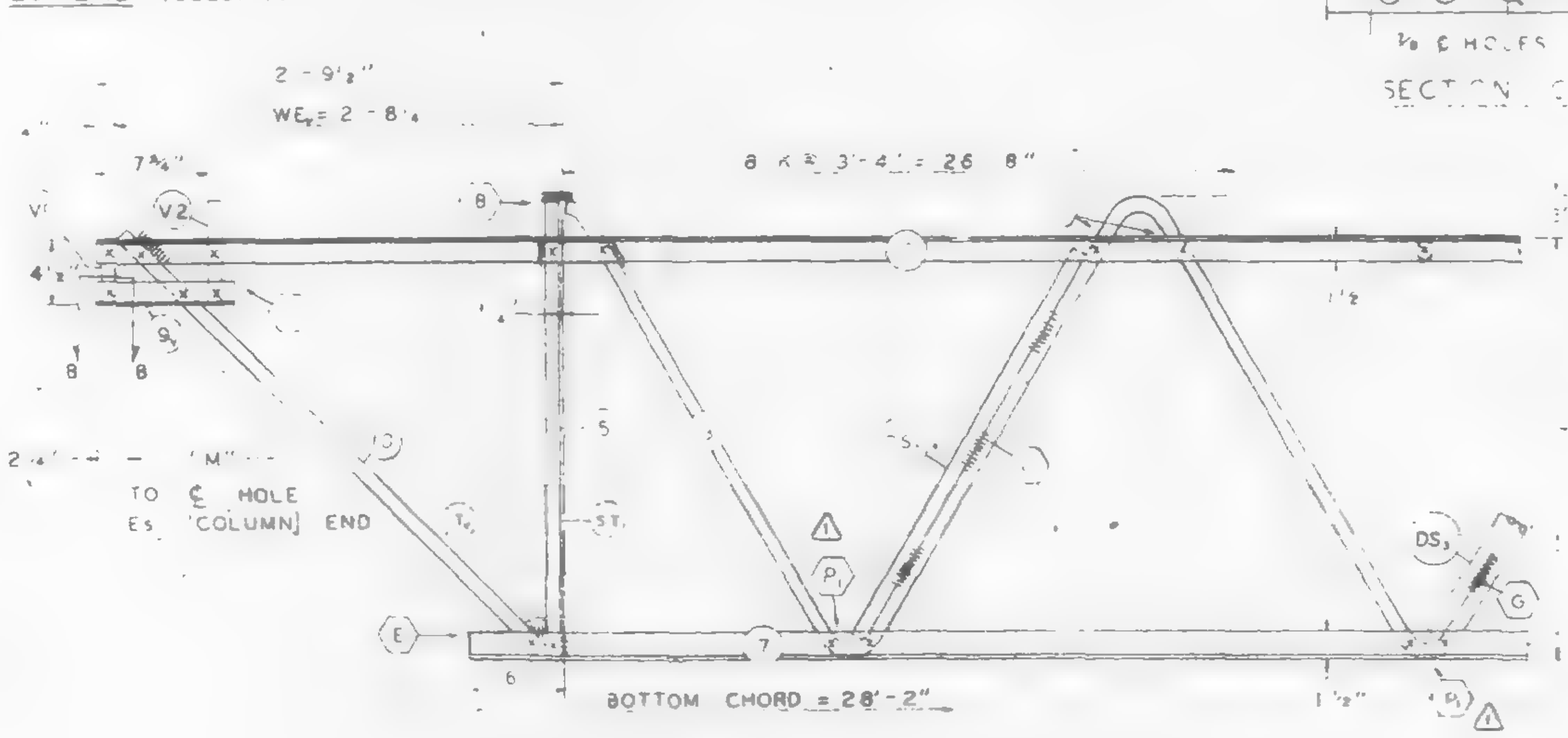


SECTION A-A

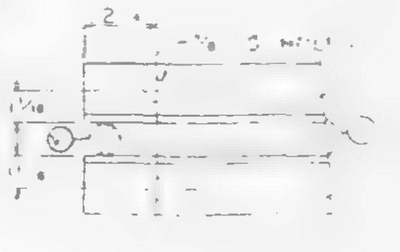


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD ASSEMBLY BY CONTRACT WTC 223.00.



Ec END (CORE)



SECTION B-B

⚠1	6-22-68	AS NOTED	TMC
NO	DATE	REVISION	BY

REF DRWGS

7-AB1-12	4-1-68
7-AB1-52	2-15-68
7-AB4-50 & 50.2	10-20-67
7-AB1-53	4-1-68
7-AB4-50.3	10-20-67

PAINT
LACLEDE ELECTROCOAT
REL. NO.

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		M ℄ HOLES	CONNECTION FILLERS ⚠1		
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO.	DIA	LENGTH
C32T13-358	6	A242	2"x1½"x0.25	35'-8"	7	A242	2"x1½"x.025	28'-2"	3	A242	0.98	49'-10"	8 @ 3'-4"=26'-8"	6	0.98	35'-2¾"	2	.98	3"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V			MK V3		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
	.32T13-358	9	A242	2"x1½"x.025	1'-10"	6'-1¼"		A242	098	6'-5"	2	A242	098	2'-7⅜"	A242	098	4⅜"	A242	098	2'-9½"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
12'-10½"	26'-2½"	—	—	5'-2½"

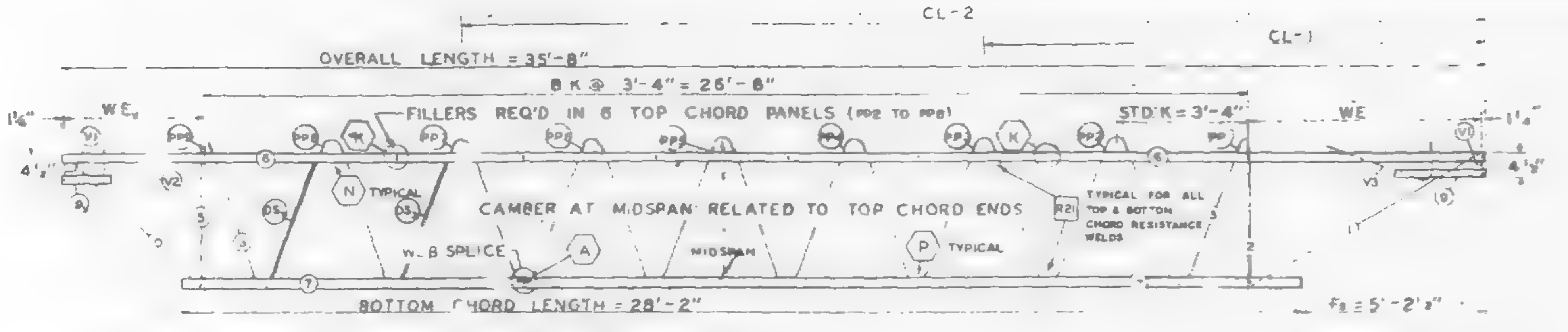
CORE END

Ec END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			MK V2			MK V4			WEB "DS10"					WEB "DS5"					DOUBLE STRUT "DS8"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LGT.	MK	PCS	TYPE STEEL	DIA	LENGTH
	C32T13-358	9	A242	2"x1½"x0.25	10"	2'-8¼"	10	A242	098	3'-6¼"	5	A242	0.98	2'-7⅞"	A242	0.98	4⅜"	A242	098	7⅜"	—	—	—	—	—	—	—	—	—	—	—	—	—	DS8	2	A242	.75	2'-8¼"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T13 35'-8" OVERALL
WORLD TRADE CENTER TOWERS A-8

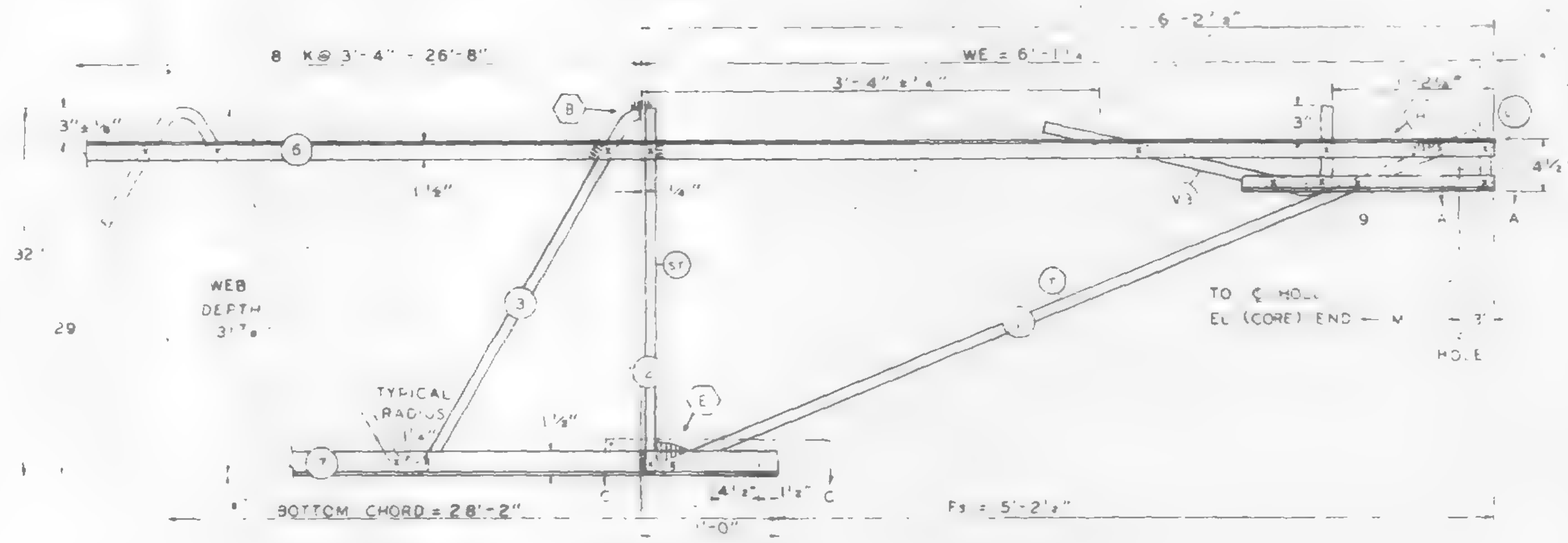
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-12 PLATE
APPROVED FOR FABRICATION BY JW FOR P.O.N.Y.A. DATE 6/25/68
DRAWN BY [illegible] DATE FEB 26, 1968
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE ____
CHECKED BY J.R. PAUL DATE FEB 28, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. WTC 221
SHEET NO ST213



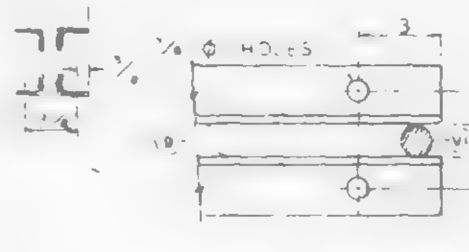
Ec END (CORE) TRUSS ELEVATION Es END (COLUMN)

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	9/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	35'-8	± 3/8"
WEB DEPTH	3	± 1/4"

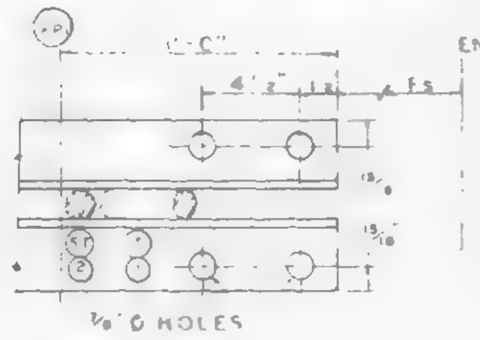
ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290
AND ST291.
SEE SHEET ST295 FOR V1, V2, & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie.. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, ie., R21.



Es END (COLUMN)

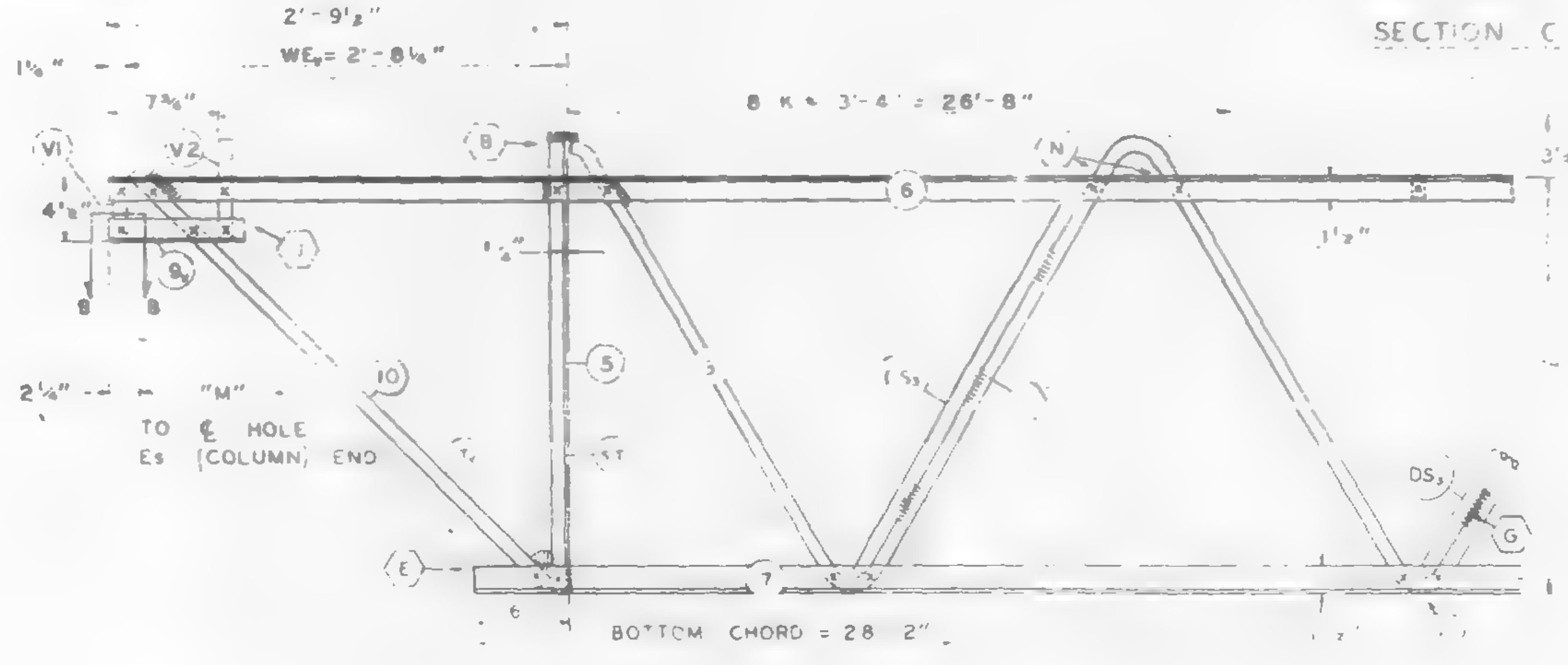


SECTION A-A

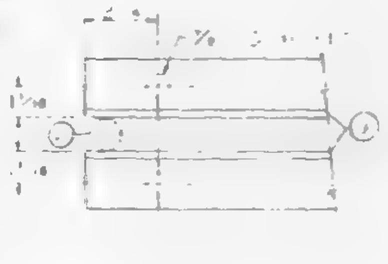


SECTION C-C

DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD (COL END) IN FIELD
ASSEMBLY BY CONTRACT WTC 223.00.



Ec END (CORE)



REF DRWGS

7-A81-12	4-1-68
7-A81-52	2-13-68
7-A84-50 & 50 2	10-20-67
7-A81-53	4-1-68
7-A84-50 3	10-20-67

PAINT
LACLEDE ELECTROCOAT
RES NO

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB					FILLER		"M" TO HOLES	TRUSS	
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA			
C32T13 358	6	A242	2"x2"x.025	35'-8"	7	A242	2"x1½"x.025	28'-2"	3	A242	.098	49'-10"	8 @ 3'-4" = 26'-8"	6	.058	35' 2¾		

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			MK V3		
			MK	TYPE STEEL	SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
		C32T13 358	9	A242	2"x1½"x.025		6'-1¼"		A242	.098		2	A242	.098	2'-7⅞"	A242	.098	4⅜		.098	2

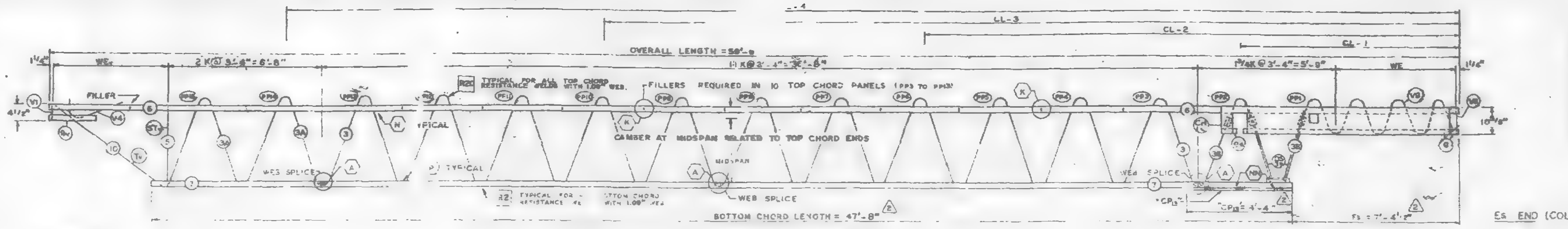
CORE END	Ec END	TRUSS DESIGNATION	BEARING ANGLES				WEc	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			MK V2			MK V4			WEB "DS10"					WEB "DS5"					DOUBLE STRUT DS3				
			MK	TYPE STEEL	SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LGT.	MK	PCS	TYPE STEEL	DIA	LENGTH
		C32T13 358	4	A242	2"x1½"x.025	10"	2' 8¼	10	A242	.098	3' 6¼"	5	A242	.098	2'-7⅞"	A242	0.98	4⅜"	A242	.098	7⅜"	—	—	—	—	—	—	—	—	—	—	—	—	—	DS3	2	A242	.75	2'-8⅛"

12' 10½"	26' 2½"	—	—	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T13 35'-8" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7 A81 12
PLATE
APPROVED FOR FABRICATION BY FOR PONYA DATE 4/26/68
DRAWN BY DATE FEB 26, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY J R PAUL DATE FEB 24, 1968
IN CHARGE OF PROD DEV
DETS EC BY R C WEBER
FABRICATION CONT NO WTC 221
SHEET NO ST213

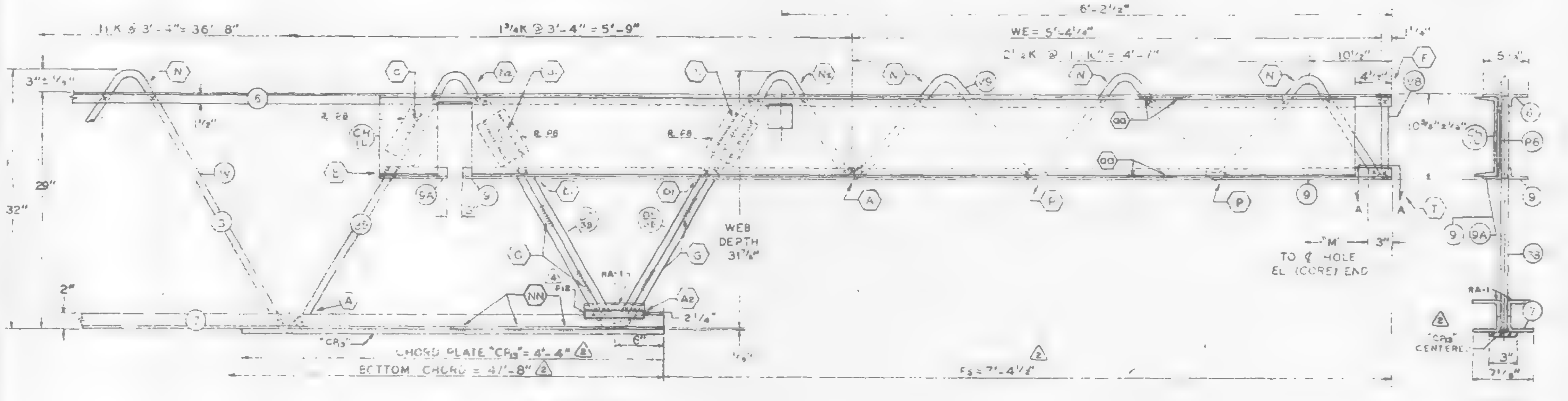


EL END (CORE)

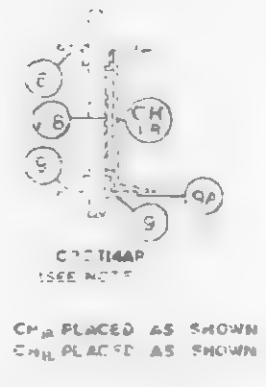
TRUSS ELEVATION

Es END (COLUMN)

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	±3/8"
DESIGN DEPTH	29"	±1/4"
PANEL "K"	3'-4"	±1/4"
OVERALL LENGTH	59'-9"	±3/8"
WEB DEPTH	31 7/8"	4"



Es END (COLUMN)

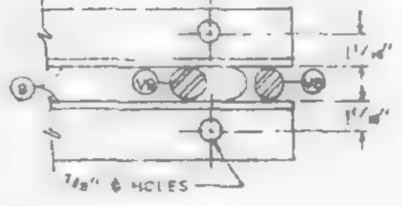


CH_R PLACED AS SHOWN FOR C32T14AR.
CH_L PLACED AS SHOWN FOR C32T14AL.

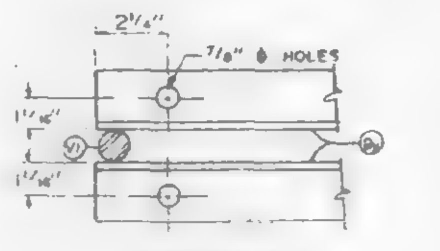
ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R1.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST293 AND ST283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST401.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 & V4 DETAILS.

NOTE #2

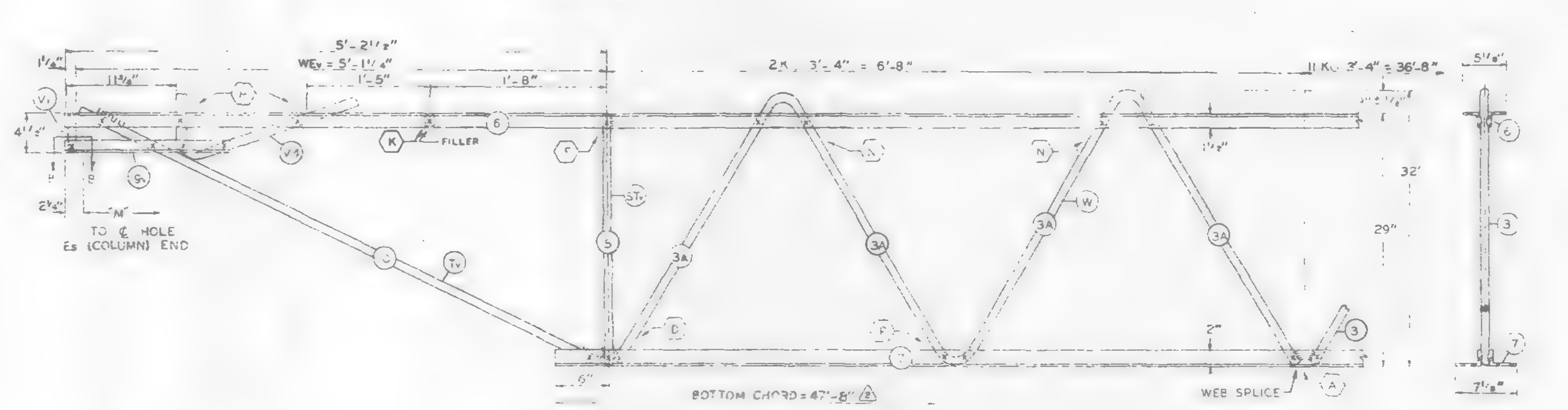
ALL DETAILS & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR TRUSSES WITH CHANNEL CHR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



SECTION B-B



El END (CORE)

NO	DATE	REVISION	BY
4	12-10-68	AS NOTED	G.D.C.
3	11-7-68	AS NOTED	G.D.C.
2	10-17-68	AS NOTED	L.W.H.
1	10-3-68	GENERAL	G.D.C.

REF. DRWG.

7-AB1-13	10-4-68
7-AB1-54	11-25-68
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17, 17.2	10-4-68
SA-124	10-11-68
7-AB1-55	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES: MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES: MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W": MK	TYPE STEEL	A	LENGTH	NO. OF K	FILLER "M" & HOLES: NO.	DIA.	CHORD PLATE	TRUSS DATA	CHANNEL PLATES: MK	TYPE STEEL	PCS	SIZE	LENGTH	REINFORCING ANGLES: MK	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	SPECIAL PLATES: MK	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C32T14AL-599	5	A242	2"x1½"x.25"	59'-9"	7	A36	3"x2"x.37"	47'-8"	3 / 3A / 3B	A36 / A242 / A242	1.02 / 1.14 / 1.14	[illegible] / [illegible] / 10'-7 3/8"	11K @ 3'-4" = 36'-8" / 2K @ 3'-4" = 6'-8" / 1¾K @ 3'-4" = 5'-9"	11	1.09, 59'-3¾"	—		PL	A36	3	4"x.39"	5½"	RA1	A36	3"x2"x.37"	7½"	F	A36	1"x3/8"	7½"

Es END TRUSS DESIGNATION	BEARING ANGLES: MK	TYPE STEEL	CHORD SIZE	PCS LENGTH	WE	DOUBLE STRUT: MK	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	CHORD PLATE: MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8: TYPE STEEL	DIA.	LENGTH	MK. V9: TYPE STEEL	DIA.	LENGTH	MK. V10: TYPE STEEL	DIA.	LENGTH	CHANNEL (SEE NOTE #2): MK	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T14AL-599	9 / 9A	A242	[illegible]	8'-5" / 8½"	5'-4¼"	3a	A242	1.14	2'-6¾"	CP	A36	3"x.25	4'-4"	A242	1.14	10½"	A242	1.14	8'-3⅛"	—	—	—	CHR / CHL	A36 / A36	10 C 30 / 10 C 30	10'-0" / 10'-0"

COLUMN END

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Es
9'-6½"	22'-10½"	36'-2½"	4 -6½"	7'-4½"

CORE END

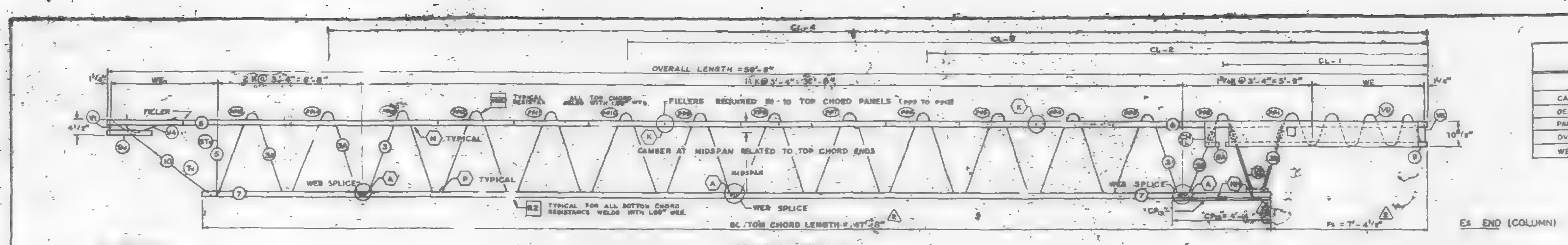
El END TRUSS DESIGNATION	BEARING ANGLES: MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "Tv" STRUT: MK	TYPE STEEL	DIA.	LENGTH	VERTICAL "St" STRUT: MK	TYPE STEEL	DIA.	LENGTH	STR. MK. V1: TYPE STEEL	DIA.	LENGTH	MK. V2: TYPE STEEL	DIA.	LENGTH	MK. V4: TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT: MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT: MK	TYPE STEEL	DIA.	LENGTH
C32T14AL-599	9	A242	2"x1½"x.25"	1'-7"	5'-1¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4⅞"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2¾"	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

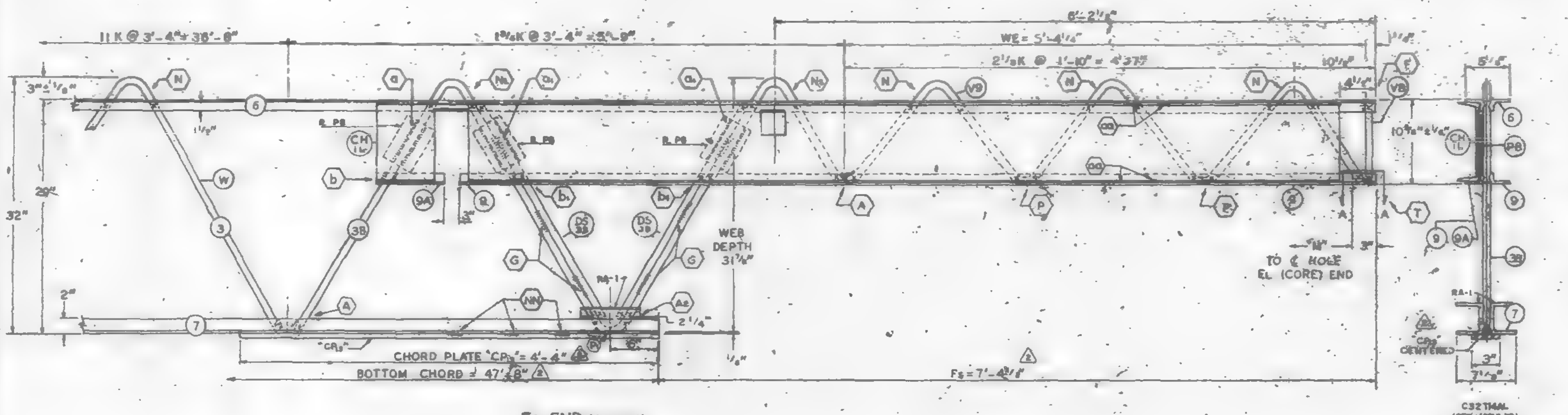
FLOOR TRUSS C32T14AL x 59'-9" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

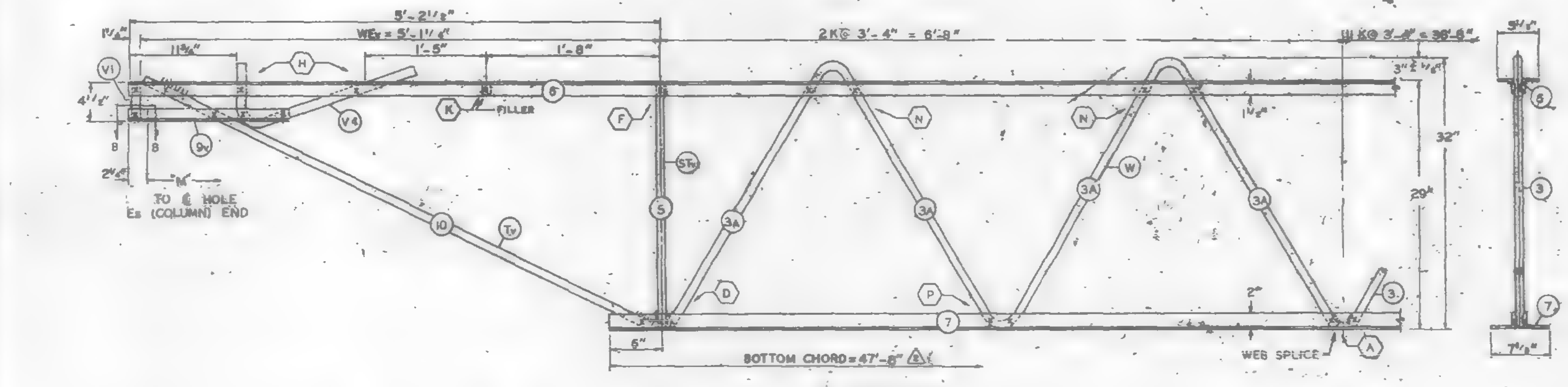
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-13	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 12/16/68	DRAWN BY gdc DATE SEPT. 9, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE SEPT. 9, 1968	IN CHARGE OF PROD. DEV.
DETAILED LACLEDE STEEL CO.	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 214AL



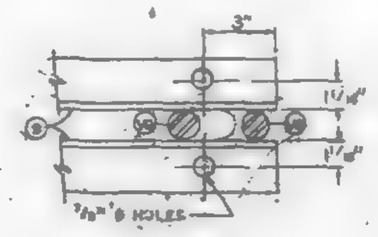
TRUSS ELEVATION



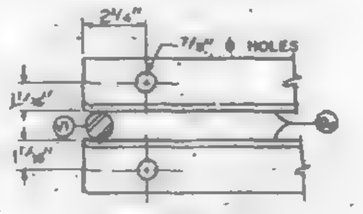
Es END (COLUMN)



EL END (CORE)



SECTION A-A



SECTION B-B

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED. (A).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R1.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST293 AND ST283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD-PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 & V4 DETAILS.

NOTE #2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR. TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO.	DATE	REVISION	BY
2	10-17-68	AS NOTED	LWH
1	10-3-68	GENERAL	G.D.C.

REF. DRWG.

7-AB1-13	8-15-68
7-AB1-54	8-15-68
7-AB1-53, 55	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17, 17.2	8-15-68
SA-124	8-1-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE				TRUSS DATA		CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH			MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T14AL-599	6	A242	2"x1½"x.25"	59'-9"	7	A36	3"x2"x.37"	47'-8"	3 / 3A / 3B	A36 / A242 / A242	1.09 / 1.14 / 1.14	[illegible]	[illegible]	11	1.09	58'-3¾"	—	—	—	—			PB	A36	3	[illegible]	5⅞"	[illegible]	A36	[illegible]	7½"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL (SEE NOTE #2)			
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T14AL-599	9 / 9A	A242 / A242	[illegible]	2 / 1	[illegible]	5'-4¼"	DS	A242	1.14	2'-6¾"	CP1	A36	3"x.25	4'-4"	A242	1.14	10½"	A242	1.14	8'-3⅞"	—	—	—	CH1 / CH1	A36 / A36	10 [illegible] 30	[illegible]

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V3			DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	C32T14AL-599	9v	A242	2"x1½"x.25"	1'-7"	5'-1½"	10	A242	1.14	5'-6⅝"	5	A242	1.14	2'-4⅜"	A242	1.14	4¾	—	—	—	A242	1.14	2'-2⅜"	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-8½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

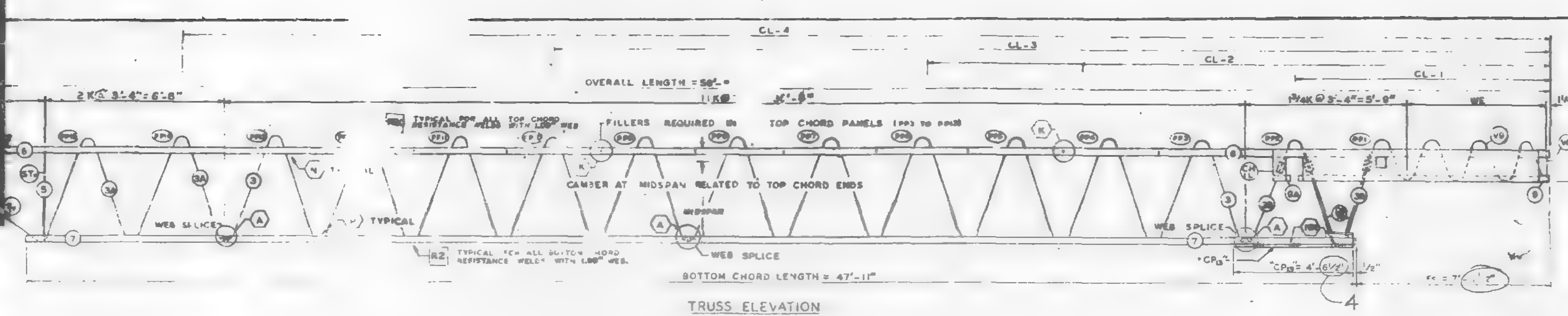
PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T14AL x 59'-9" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-13
PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White — DATE 10/23/68
DRAWN BY gdc — DATE SEPT. 9, 1968
APPROVED FOR FABRICATION BY: FABRICATOR — DATE
CHECKED BY T M CHURA — DATE SEPT. 9, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A CARL WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO ST 214AL

[redacted]



EL END (CORE)

TRUSS ELEVATION

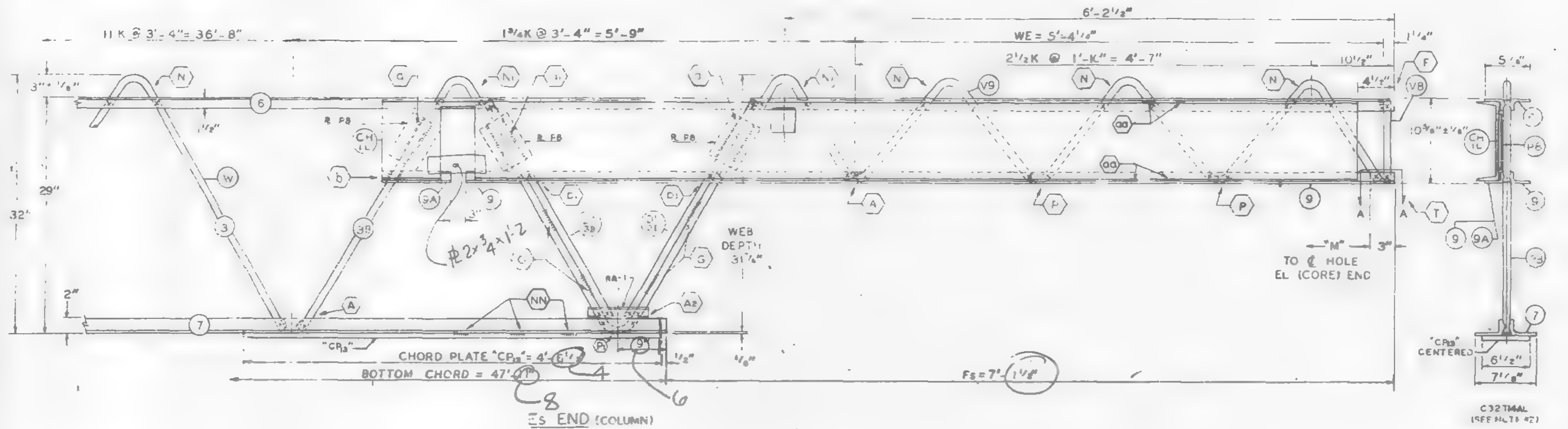
Es END (COLUMN)

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	±3/8"
DESIGN DEPTH	29"	±1/4"
PANEL "K"	3'-4"	±1/4"
OVERALL LENGTH	59'-9"	±3/8"
WEB DEPTH	31 7/8"	±1/4"

ALL PANEL POINTS RESISTANCE WELDED ... ARC WELDS INDICATED AT ... AND AT BOTTOM CHORD WEB SPLICES ... LETTERS IN HEXAGON INDICATE WELD DETAIL ... LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH ... IN THE QUALITY CONTROL PROGRAM, ... RI . ALL ... SHEETS ST 290, ST 29.., ST 293 AND ST 283. ALL CHANNEL ... SHOWN ON SHEET ST 4.. ... SHOWN ON SHEET ST 283 SEE SHEET ST 295 FOR VI & V4 DETAILS.

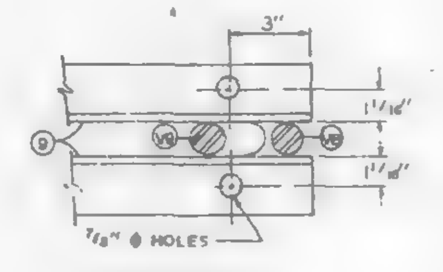
NOTE #2

... & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR TRUSSES WITH CHANNEL CH ... AND BEARING ANGLE 9A PLACED ... AS SHOWN.

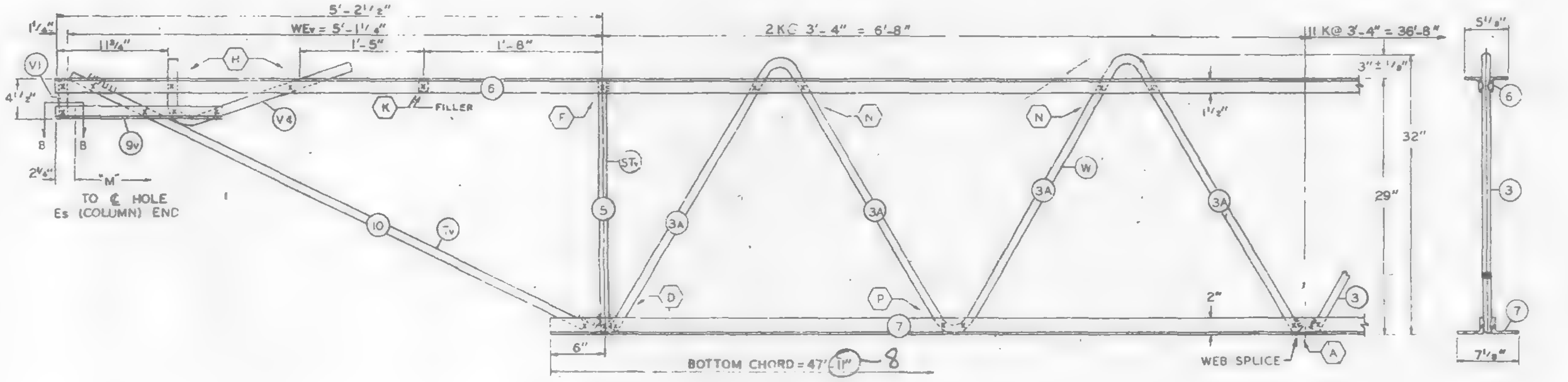


Es END (COLUMN)

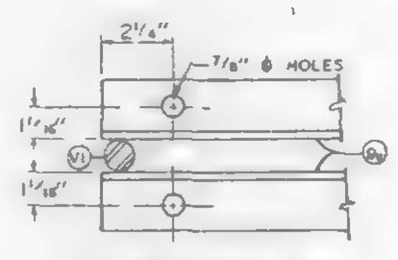
CP13 PLACED AS SHOWN FOR C32T14AR.
CP13 PLACED AS SHOWN FOR C32T14AL.



SECTION A-A



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
△	10-3-67	GENERAL	G.D.C.

REF. DRWG.

7-AB1-13	8-15-68
7-AB1-54	8-15-68
7-AB1-53,55	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17,17.2	8-15-68
SA-124	8-1-68

9/15/68 SK

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH
C32T14AL-599	6	A242	2"x1 1/2"x.25"	59'-9"	7	A36	3"x2"x.37"	47'-11"

MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K
3	A36	1.09	[illegible]-6 1/4"	11K@3'-4"=36'-8"
3A	A242	1.14	12'-5 1/2"	2K@3'-4"=6'-8"
3B	A242	1.14	10'-7 3/8"	1 3/4K@3'-4"=5'-9"

FILLER NO.	FILLER DIA.	"M" C/C HOLES	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	TRUSS DATA		CHANNEL PLATES MK	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES (2 REQ'D) MK	TYPE STEEL	SIZE	LENGTH
11	1.09	59'-3 3/4"	—	—	—	—			P8	A36	3	4 1/2x.39"	5 1/2"	RA-1	A242	2"x1 1/2"x.25 (3x2x.37)	7 1/2"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)
C32T14AL-599	9 / 9A	A242 / A242	2"x1 1/2"x.25" / 2"x1 1/2"x.25"	1 / 1	6'-5" / 6 1/2"	5'-4 1/4"	DS	A242	1.14	2'-6 3/4"

CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH
CP13	A36	6 1/4"x.25 (3x.25)	4'-6 1/4" (4)	A242	1.14	10 1/2"	A242	1.14	8'-3 1/8"	—	—	—

CHANNEL (SEE NOTE #2) MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
CH	A36	10 C 30	10'-0"
CH	A36	10 C 30	10'-0"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA.	LENGTH
C32T14AL-599	9v	A242	2"x1 1/2"x.25"	1'-7"	5'-1 1/8"	10	A242	1.14	5'-6 1/2"	5	A242	1.14	2'-4 3/4"

END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
A242	1.14	4 5/8"	—	—	—	A242	1.14	2'-2 1/2"	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS

FLOOR TRUSS C32T14AL x 59'-9" LONG (SEE NOTE #2)

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING 7-AB1-13

APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE

DRAWN BY gdc DATE SEPT. 9, 1968

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE

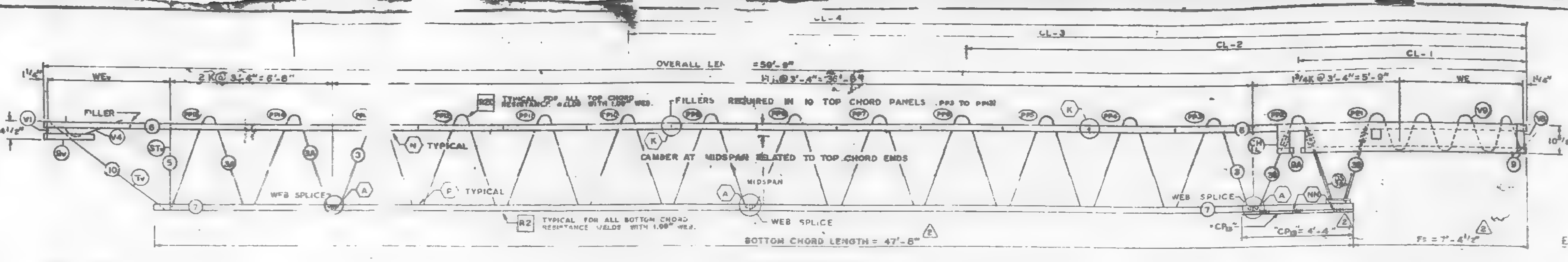
CHECKED BY T.M. CHURA DATE SEPT. 9, 1968

IN CHARGE OF PROD. DEV.

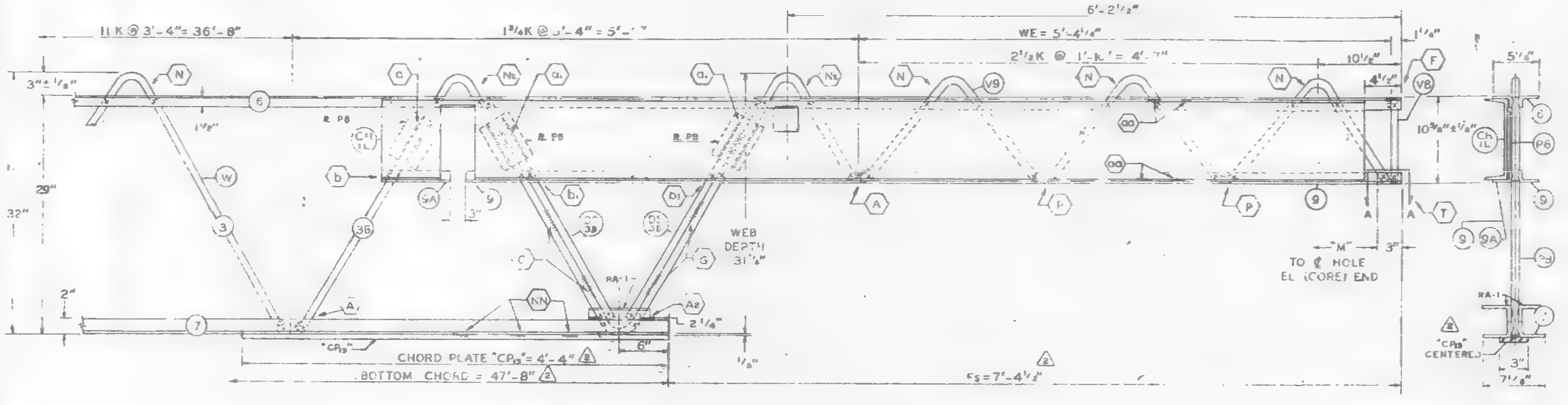
DETAILED BY A. CARL WEBER

FABRICATION CONT NO WTC 221

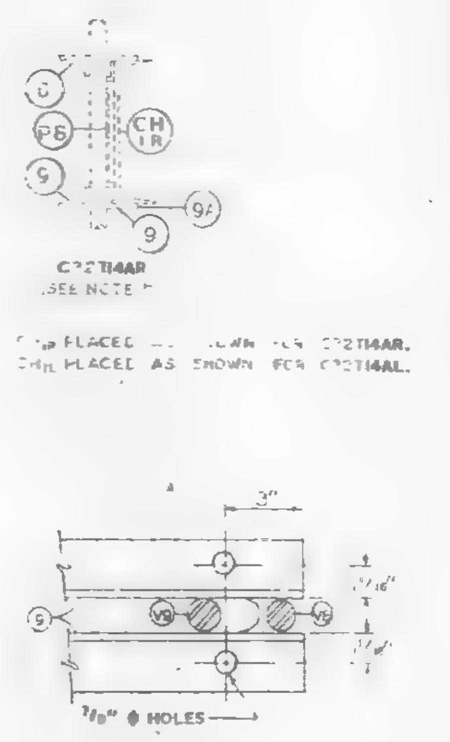
SHEET NO ST 214AL



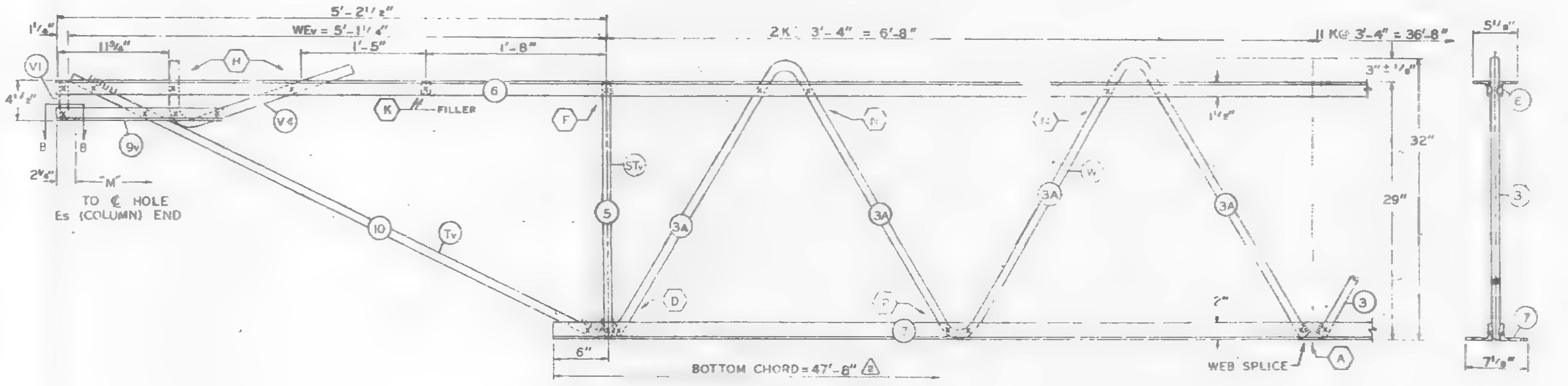
EL END (CORE) TRUSS ELEVATION Es END (COLUMN)



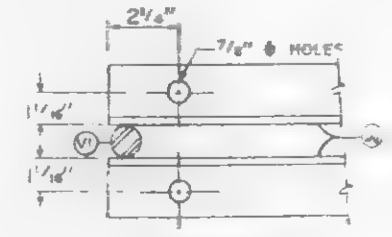
Es END (COLUMN)



SECTION A-A



EL END (CORE)



SECTION B-B

FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	±3/8"
DESIGN DEPTH	29"	±1/4"
PANEL "K"	3'-4"	±1/4"
OVERALL LENGTH	59'-9"	±3/8"
WEB DEPTH	31 [illegible]	±1/4"

ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie., [R1].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST293 AND ST283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 & V4 DETAILS.

NOTE #2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO.	DATE	REVISION	BY
3	11-7-68	AS NOTED	G.D.C.
2	10-17-68	AS NOTED	LWH
1	10-3-68	GENERAL	G.D.C.

REF. DRWG.

7-AB1-13	10-4-68
7-AB1-54	10-4-68
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17,17.2	10-4-68
SA-124	10-11-68
7-AB1-55	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE				TRUSS DATA	CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH		MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T14AL-599	6	A242	2"x1½"x.25"	59'-9"	7	A36	3"x2"x.37"	47'-8"	3 3A 3B	A36 A242 A242	1.09 1.14 1.14	48'-6¼" 12'-5½" 10'-7⅝"	11K @ 3'-4" = 36'-8" 2K @ 3'-4" = 6'-8" 1¾K @ 3'-4" = 5'-9"	11	1.09	59'-3⅜"	—	—	—	—		P8	A36	3	4½"x.39"	5½"	RA-1	A36	3"x2"x.37"	7½"

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL (SEE NOTE #2)			
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T14AL-599	9 9A	A242 A242	2"x1½"x.25" 2"x1½"x.25"	1 1	8'-5" 8½"	5'-4¼"	3	A242	1.14	2'-6¾"	CP3	A36	3"x.25	4'-4"	A242	1.14	10½"	A242	1.14	8'-3⅞"	—	—	—	CHL CHR	A36 A36	10 [30 10 [30	10'-0" 10'-0"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL STv STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	C32T14AL-599	9v	A242	2"x1½"x.25"	1'-7"	5'-1¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4⅞"	A242	1.14	⅜"	—	—	—	A242	1.14	2'-2½"	—	—	—	—	—	—	—	—

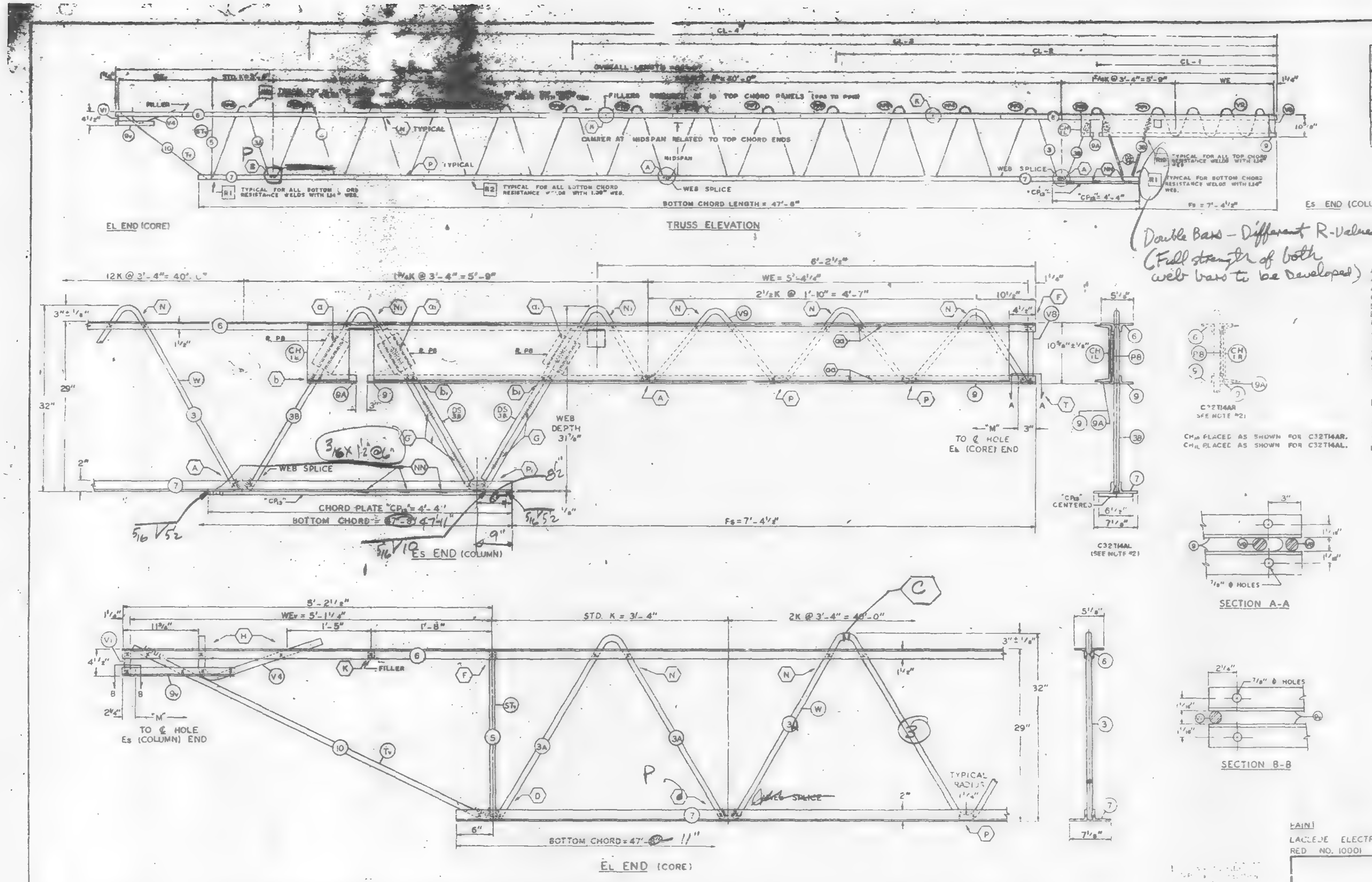
CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T14AL x 59'-9" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-13	PLATE
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A	DATE 11/18/68	DRAWN BY gdc DATE SEPT. 9, 1968	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE SEPT. 9, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO. ST 214AL



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	32"	±1/4"
PANEL "K"	4"	±1/4"
OVERALL LENGTH	[illegible]-9"	±3/[illegible]
WEB DEPTH	31 7/8"	±1/[illegible]

ALL PANEL POINTS RESISTANCE WELDED (&) ARC WELDS [illegible] AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie.. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH [illegible] THE QUALITY CONTROL PROGRAM, ie.. R1.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST2[illegible], ST 293 AND ST 283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST4[illegible]
CHORD PLATE DETAILS SHOWN ON SHEET ST[illegible]
SEE SHEET ST 295 FOR V1 & V4 DETAILS.
SEE SHEET ST 294 FOR V8 & V9 DETAILS.

NOTE #2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14AL TRUSSES ARE APPLICABLE TO C32T14AR [illegible] WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND [illegible]

REF. DRWG.

7-A81-13	8-15-68
7-A81-54	8-15-68
7-A81-53,55	7-22-68
7-A83-2	1-3-68
7-A83-24	8-15-68
7-A84-17,172	8-15-68
SA-124	8-1-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE				TRUSS DATA	CHANNEL PLATES				
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH		MK.	TYPE STEEL	PCS.	SIZE	LENGTH
C32T14AL-599	6	A242	2"x 1½"x.25"	59'-9"	7	A36	3"x 2"x.37"	47'-8" (11")	3 3A 3B	A36 A242 A242	1.09 1.14 1.14	74'-[illegible] [illegible] 10'-7[illegible]	12K@ 3'-4" = 40'-0" 1K@ 3'-4" = 3'-4" 1¾K@ 3'-4" = 5'-9"	11	1.09	59'-3⅜"	—	—	—	—		P8	A36	3	4"x½" (4½x.39)	6" (5½")

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL (SEE NOTE #2)			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQD)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T14AL-599	9 9A	A242 A242	2"x1½"x.25" 2"x1½"x.25"	2 1	[illegible]	5'-4¼"	DS	A242	1.14	2'-6¾"	CP	A36	[illegible]	4'-4"	A242	1.14	10½"	[illegible]	1.14	8'-3⅛"	—	—	—	CH-L CH-R	A36 A36	10 C 30 10 C 30	10'-0" 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

CORE END

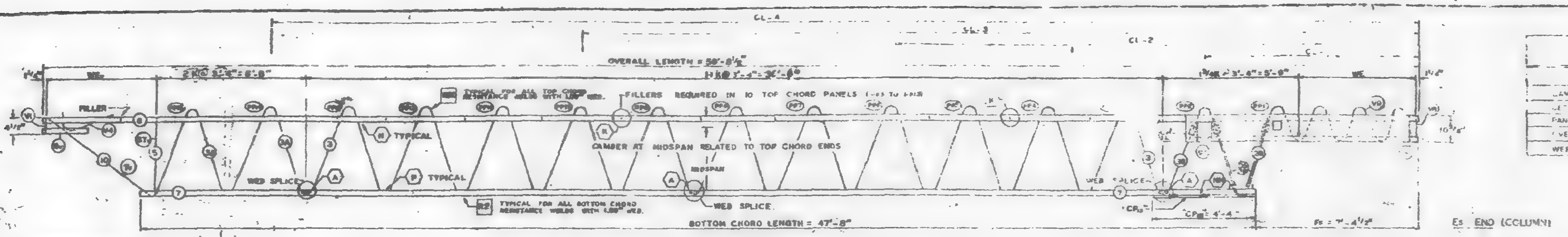
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T14AL-599	9v	A242	2"x 1½"x.25"	1'-7"	5'-1¼"	10	A242	1.14	5'-6¼"	5	A242	1.14	2'-4¾"	A242	1.14	4⅜"	—	—	—	A242	1.14	2'-2¼"	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER [illegible]

THE [illegible]

FLOOR TRUSS C32T14AL x 59'-9" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

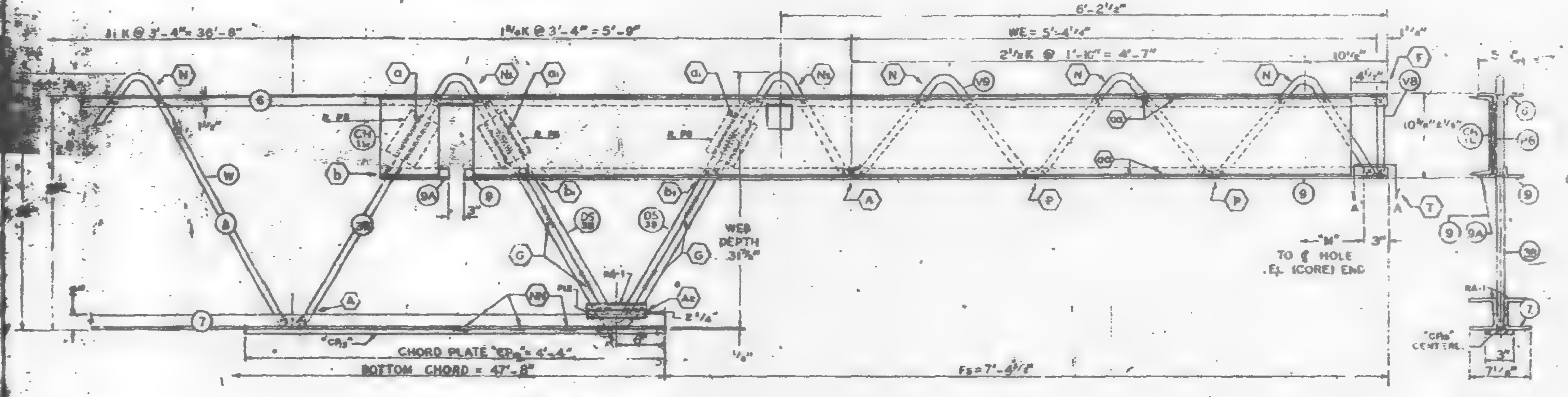
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN [illegible] 7-A81-13	[illegible]
APPROVED FOR FABRICATION BY ___ FOR P.O.N.Y.A	DATE	DRAWN BY gdc DATE SEPT. 9, 1968	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY [illegible]MURA DATE SEPT. 9, 1968	IN CHARGE OF PROC. DEV.
DETAILED BY CARL [illegible]		FABRICATION CONT. NO. WTC 221	SHEET NO. ST 214AL



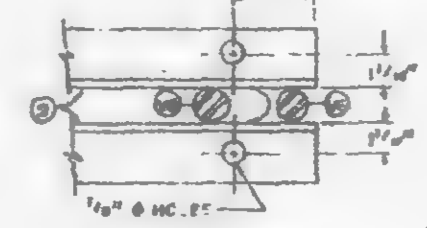
TRUSS ELEVATION

EL END (CORE)

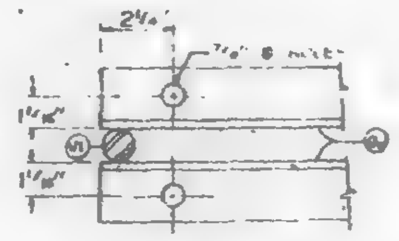
Es END (COLUMN)



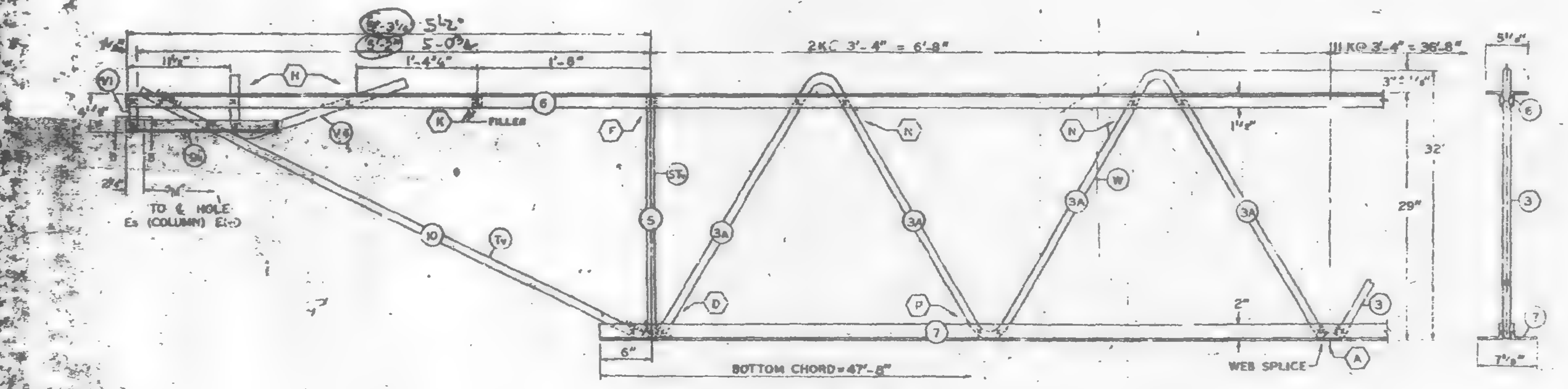
Es END (COLUMN)



SECTION A-A



SECTION B-B



EL END (CORE)

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	±3/8"
DESIGN DEPTH	29"	±1/4"
PANEL "P"	3'-4"	±1/4"
OVERALL LENGTH	58'-8½"	±3/8"
WEB DEPTH	31 7/8"	±1/4"

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 293 AND ST 283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

NOTE #2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14BL TRUSSES ARE APPLICABLE TO C32T14BR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AT THE [illegible].

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB1-13	[illegible]
7-AB1-54	1-6-69
7-AB4-53	7-22-[illegible]
7-AB3-2	1-3-[illegible]
7-AB3-24	8-16-[illegible]
7-AB4-17	10-[illegible]-68
SA-124	1-6-69
7-AB1-58	10-15-68
7-AB4-17.2	12-20-[illegible]

SKILLING · HELLE · CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
4/5/69 SK

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T14BL x 59'-8½" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

DRAWN BY: [illegible] DATE APRIL 11,1969
CHECKED BY: [illegible] DATE APRIL 11,1969
IN CHARGE OF: [illegible]
CONTRACT NO. 221
DETAILED BY A. CARL WEBER
SHEET NO. ST 214BL

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	DIA.	"M" C/C HOLES	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	TRUSS DATA	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES MK.	TYPE STEEL	ANGLE SIZE	LENGTH	SPECIAL PLATES MK.	TYPE STEEL	SIZE	LENGTH
C32T14BL-5985	6	A2	2"x1½"x.25"	59'-8½"	7	A36	3"x2"x.37"	47'-8"	[illegible]	A36 / A242 / A242	1.09 / 1.14 / 1.14	[illegible]	11K@3'-4"=36'-8" / 2K@3'-4"=6'-8" / 1¾K@3'-4"=5'-9"	11	1.09	59'-3½"	—	—	—	—		P6	A36	3	[illegible]	5½"	[illegible]	A36	[illegible]	7½"	P12	A36	[illegible]	7½"

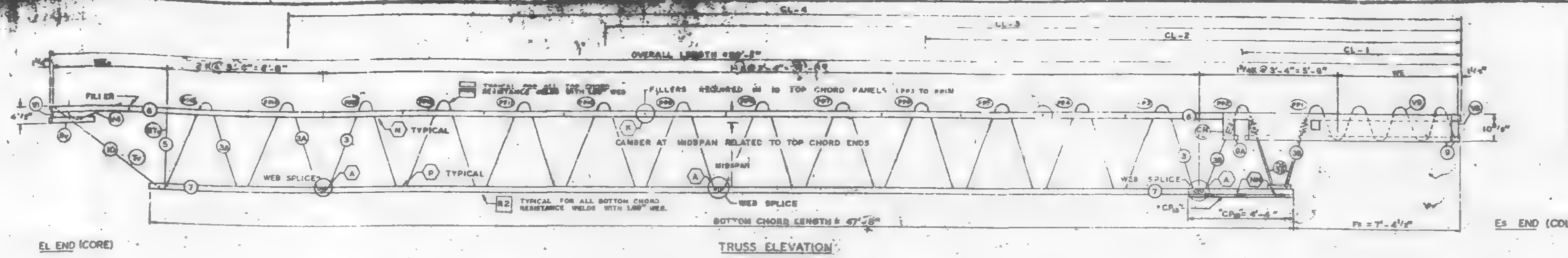
COLUMN END

Es DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL (SEE NOTE #2) MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T14BL-5985	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5'-4¼"	D5	A242	1.14	2'-8¼"	CP	A36	3"x.25	4'-4"	A242	1.14	10½"	A242	1.14	8'-3⅞"	—	—	—	[illegible]	A36	10 C 30	[illegible]

TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	[illegible]	LENGTH
[illegible]	[illegible]	[illegible]	[illegible]x.25"	1'-6"	5'-[illegible]	10	A242	1.14	5'-6⅛"	5	A242	1.14	2'-4⅝"	A242	1.14	4⅞"	—	—	—	A242	1.14	2'-2¼"	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 ½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

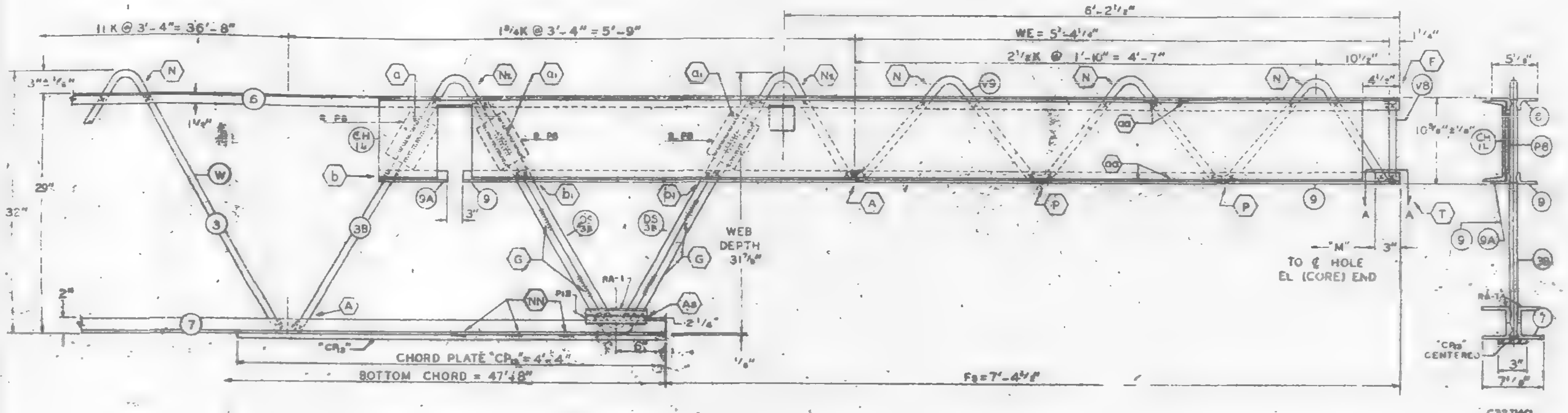


EL END (CORE)

TRUSS ELEVATION

ES END (COLUMN)

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	±3/8"
DESIGN DEPTH	29"	±1/4"
PANEL "K"	3'-4"	±1/4"
OVERALL LENGTH	59'-8"	±3/8"
WEB DEPTH	31 7/8"	±1/4"

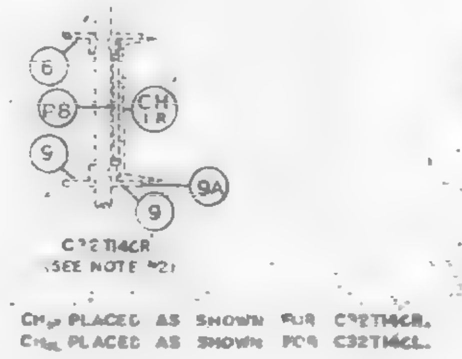


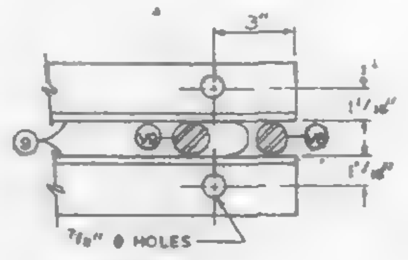
ES END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (x). ARE WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [R1].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST293 AND ST283.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

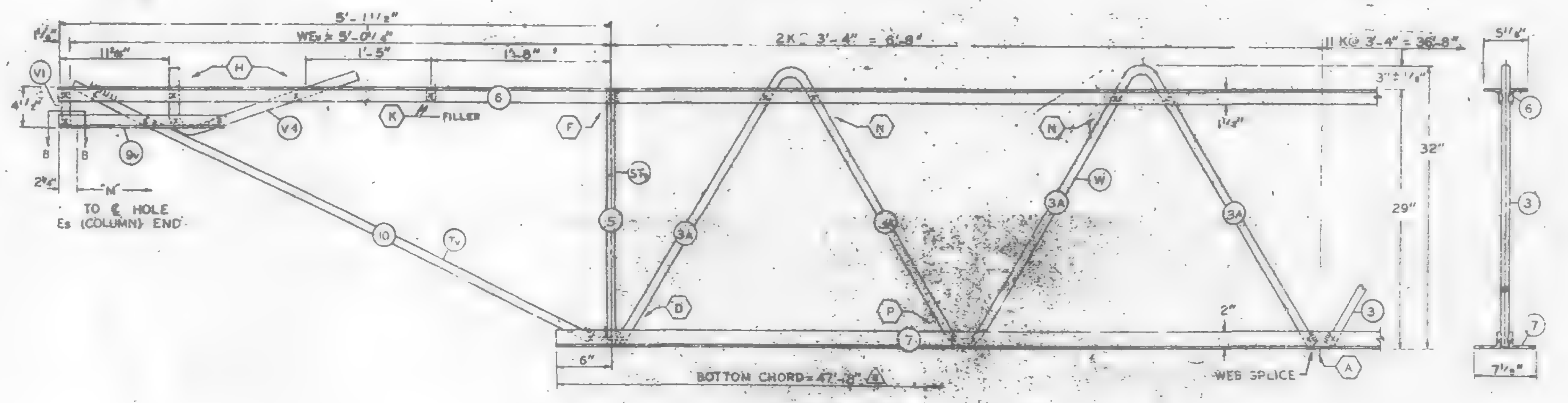
NOTE #2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T14CL TRUSSES ARE APPLICABLE TO C32T14CR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



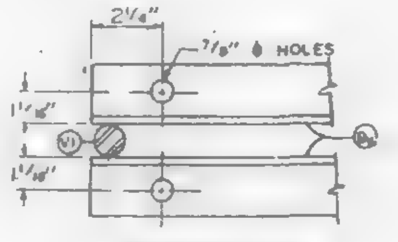


SECTION A-A



EL END (CORE)

NO.	DATE	REVISION	BY



SECTION B-B

REF. DRWG.

7-AB1-13	10-4-68
7-AB1-54	11-25-68
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17,17.2	10-4-68
SA-124	10-11-68
7-AB1-55	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" HOLES	CHORD PLATE				TRUSS DATA		CHANNEL PLATES					REINFORCING ANGLES				SPECIAL PLATES			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH			MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH (2 REQ'D)
C32T14CL-[illegible]	6	A242	2"x1½"x.25"	59'-8"	7	A36	3"x2"x.37"	47'-6"	3 / 3A / 3B	A36 / A242 / A242	[illegible] / 1.14 / 1.14	[illegible] / [illegible] / 10'-7⅞"	[illegible] / 1¾K @ 3'-4" = 5'-9"	11	1.09	50'-[illegible]	—	—	—	—			P8	A36	3	4"x.39"	5'1½"	[illegible]	[illegible]	3½"x2"x.37"	7'-7½"	P	A36	[illegible]	7'-[illegible]

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL (SEE NOTE #2)			
ES END		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T14CL-598	9 / 9A	A242 / A242	2"x1½"x.25" / 2"x1½"x.25"	2 / 1	[illegible]	5'-4¼"	DS	A242	1.14	2'-6¾"	CP	A36	3"x.25	4'-4"	A242	1.14	10½"	A242	1.14	8'-3⅛"	—	—	—	CH_L / CH_R	A36 / A36	10 C 30 / 10 C 30	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	F_S
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

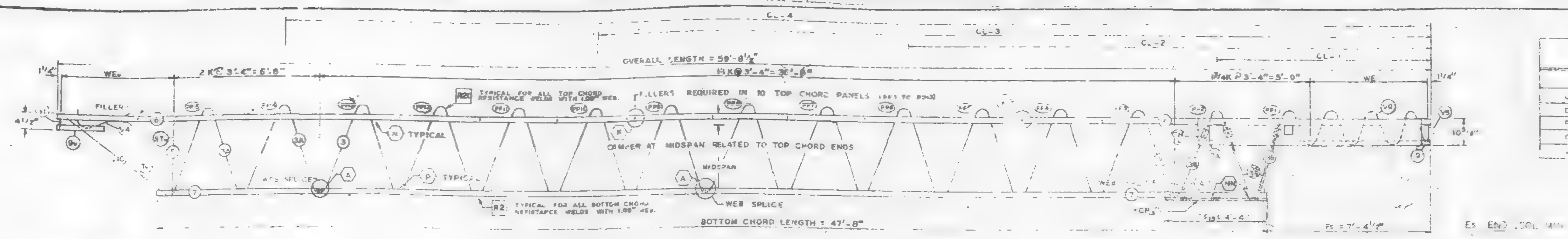
CORE END	TRUSS DESIGNATION	BEARING ANGLES				WE_V	DIAGONAL "T_V" STRUT				VERTICAL "ST_V" STRUT				END STIFFENER MK. V1			MK. V[illegible]			MK. V[illegible]			DOUBLE STRUT				DOUBLE STRUT			
EL END		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T14CL-598	9V	A242	2"x1½"x.25"	1'-6"	5'-0¾"	10	A242	1.14	5'-5⅛"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅞"	—	—	—	A242	1.14	2'-2¾"	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T14CL x 59'-8" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-13	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White	DATE 4/7/69	DRAWN BY [illegible] DATE MAR 28 1969	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY T.Y. [illegible] DATE MAR 28 1969	IN CHARGE OF PROD. DEV.
DETAILED BY [illegible] STEEL CO.		FABRICATION CONT. NO. WTC 221	SHEET NO. ST 214CL

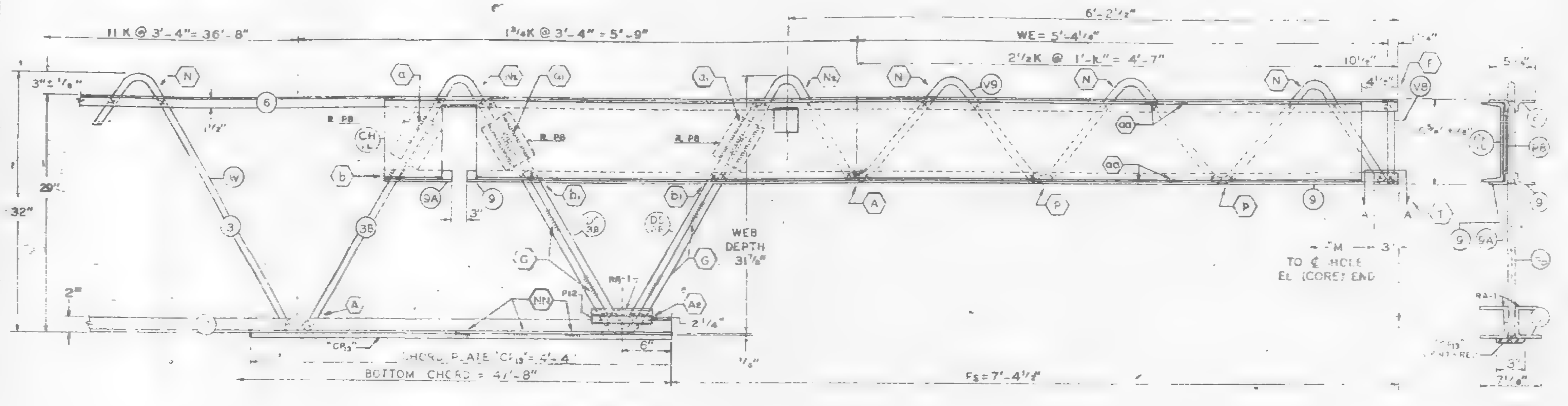


EL END (CORE)

TRUSS ELEVATION

Es END (COLUMN)

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

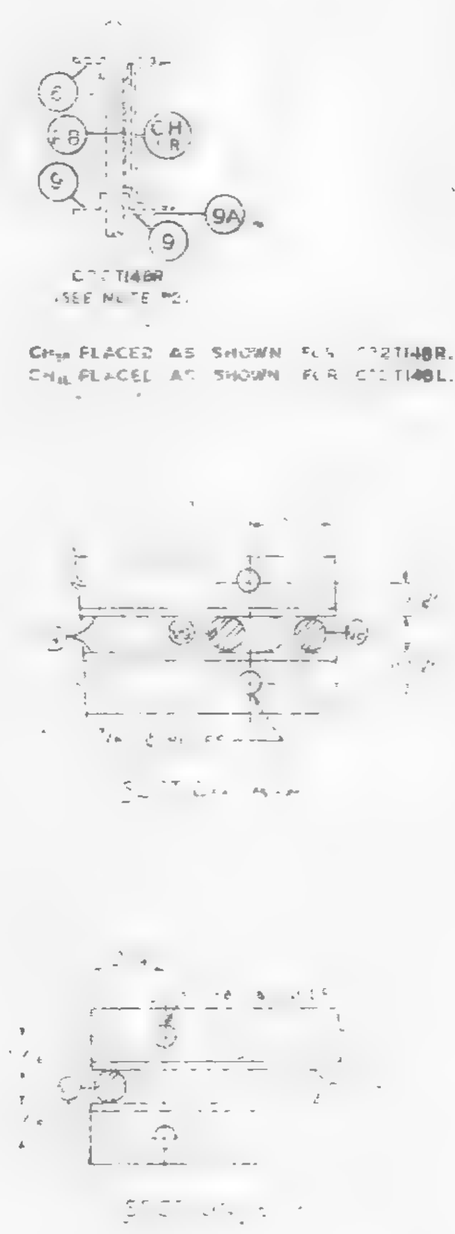


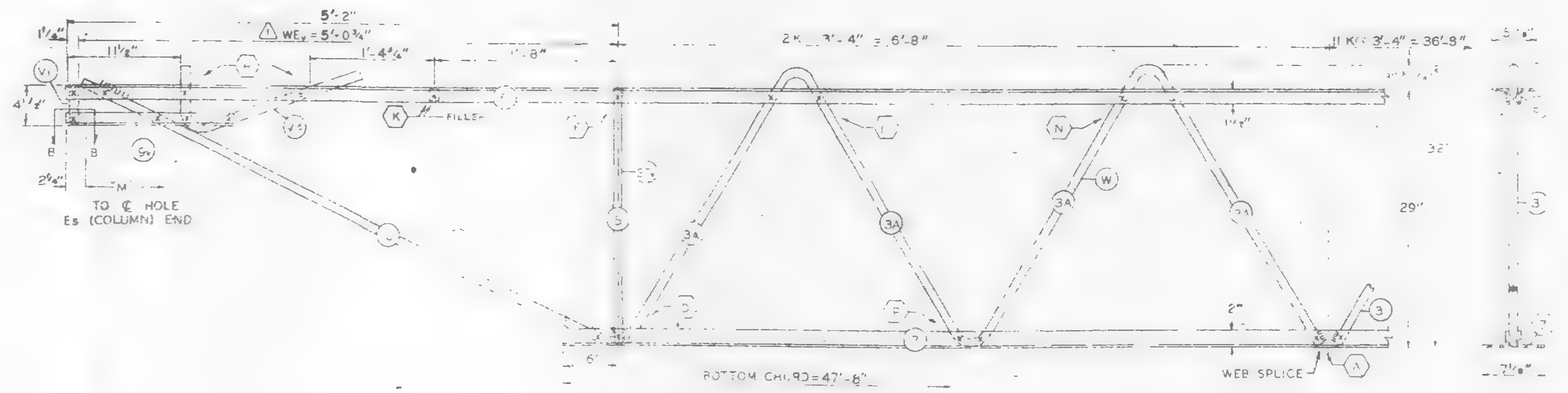
Es END (COLUMN)

... STANCE WELDED. (X). ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ... HEXAGON INDICATE WELD DETAIL, ie., (A). ... AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1]. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST293 AND ST283. ALL CHANNEL DETAILS SHOWN ON SHEET ST407. CHORD PLATE DETAILS SHOWN ON SHEET ST283. SEE SHEET ST295 FOR V1 & V4 DETAILS.

NOTE #2

... DETAILS ... SHOWN FOR C32T14BL ... C32T14BR TRUSSES WITH CHANNEL ... BEARING ANGLE 9A ...





EL END (CORE)

NO	DATE	REVISION	BY
1	6-16-69	AS NOTED	G.D.C.

REF. DWGS.	
7-AB1-13	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17	10-4-68
SA-124	1-6-69
7-AB1-55	10-15-68
7-AB4-172	12-20-68

TRUSS DESIGNATION	TOP CHORD TYPE STEEL	TOP CHORD SIZE	TOP CHORD LENGTH	BOTTOM CHORD TYPE STEEL	BOTTOM CHORD SIZE	BOTTOM CHORD LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER	"X" ANGLES DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	TRUSS DATA	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	SPECIAL PLATES MK.	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
32T14BL-5985	A242	2"x1½"x.25"	59'-8½"	A36	3"x2"x.37"	47'-8"	[illegible]	A36 / A242	1.09 / 1.14	[illegible]	[illegible]	11	1.09	59'-3¼"	—	—	—	—		[illegible]	A36	3	4"x.39"	5½"	A36	3"x2"x.37"	7½"	12	A36	1"x⅝"	7½"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL (SEE NOTE #2) MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T[illegible]-5985	9A	A242	[illegible]	[illegible]	5'-4¼"	[illegible]	A242	1.14	2'-6¾"	CP13	A36	3"x.25	4'-4"	A242	1.14	10½"	A242	1.14	8'-3⅞"	—	—	—	CH10 / CH11	A36 / A36	10 C 30 / 10 C 30	[illegible]

CHECK DIMENSION FOR TRUSS FAB. LOCATION				
CL-1	CL-2	CL-3	CL-4	
9'-6½"	[illegible]-10½"	35'-2½"	49'-6½"	[illegible]

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv ⚠1	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL Sv STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
	C32T14BL-5985	9	A242	2"x1½"x.25"	1'-6"	5'-0¾"	10	A242	1.14	5'-6⅛"	5	A242	1.14	2'-4⅛"	A242	1.14	4⅜"	—	—	—	A242	1.14	2'-2⅛"	—	—	—	—	—	—	—	—

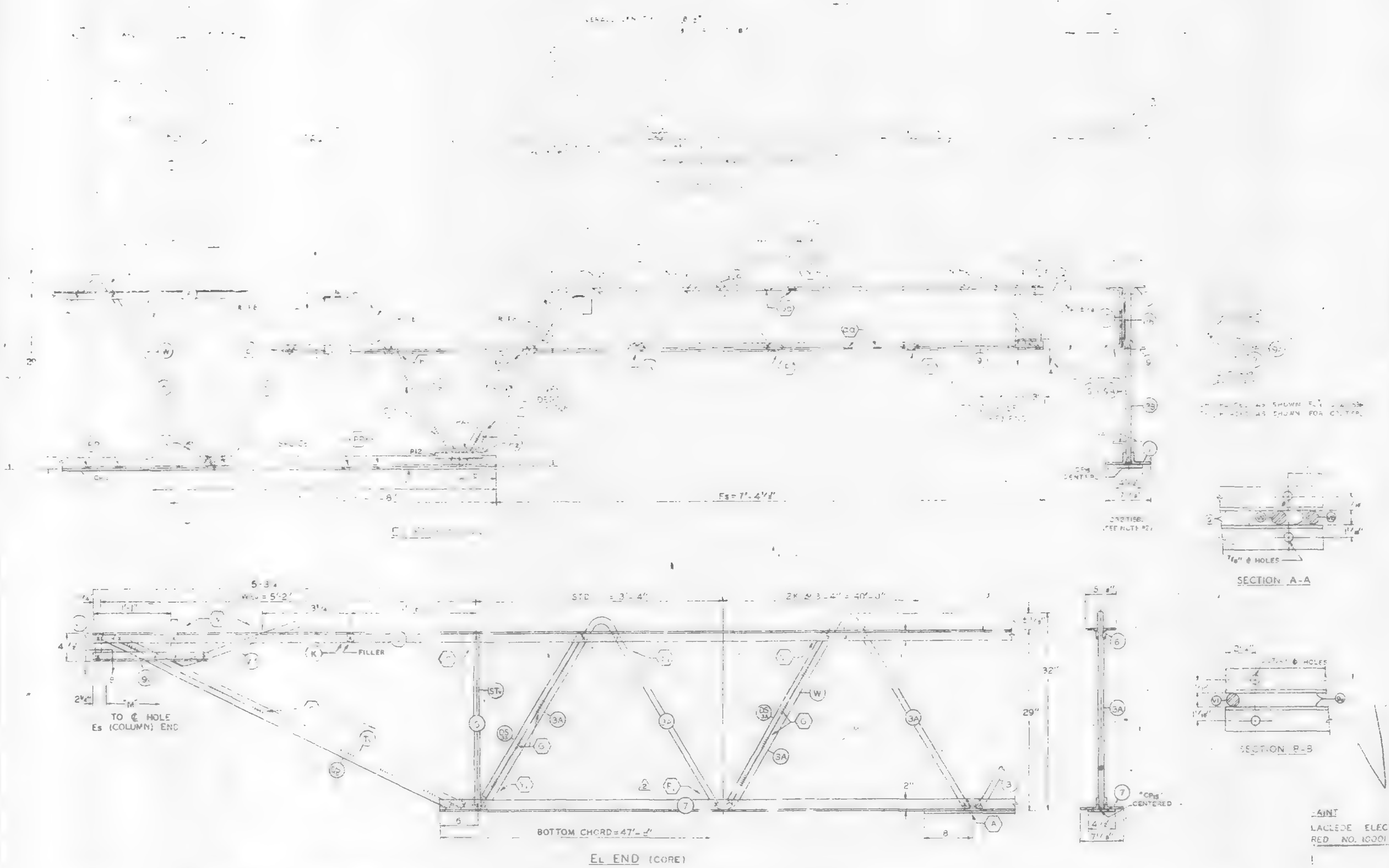
FLOOR ... DETAILS

FLOOR TRUSS C32T14BL x 59'-8½" LONG (SEE NOTE #2)

WORLD TRADE CENTER TOWER "A" ...

... LACLEDE STEEL COMPANY

FABRICATE AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-13	PLATE
APPROVED FOR FABRICATION BY ... FOR P.O.N.Y.A. DATE 7/28/69	DRAWN BY G.D.C. DATE APRIL 11, 1969	
APPROVED FOR FABRICATION BY ... FOR FABRICATOR DATE	CHECKED BY T.M.CHURA DATE APRIL 11, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 2148



VOID

Main web "W" MK.	Type steel	Dia.	Filler No.	"M" ℄-holes	Chord plate MK.	Type steel	Size	Length	Connection filler No.	Dia.	Length	Channel plates MK.	Type steel	PCS	Size	Length	Reinforcing angles Type steel	Angle size	Special plates Type steel
3 / 3A / 3B	A242	1.14	2	59'-3¼"	CP15	A36	4½x.39	41'-2"	4	1.14	3"	P8	A36	3	4½x.39	5	A36	3'x 2½x.37'	A36

Truss designation	Bearing angles MK.	Type steel	Chord size	WE	Double strut MK.	Type steel	Dia.	Length (2 req'd)	Chord plate MK.	Type steel	Size	Length	End stiffener MK. V8 Type steel	Dia.	Length	MK. V9 Type steel	Dia.	Length	MK. V10 Type steel	Dia.	Length	Channel (see note #2) MK.	Type steel	Channel size	Length
C32T15BL-5985	9 / 9A	A242 / A242		5'-4¼"	DS	A242	1.14	2'-6¾"	—	—	—	—	A242	1.14	10½"	A242	1.14	8'-3⅞"	—	—	—	CH	A36 / A36	10⊏30 / 10⊏30	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS

CL-1	CL-2		
9'-6	22'-10	36'-2	4

EL END	Truss designation	Bearing angles MK.	Type steel	Chord size	Length	WEv	Diagonal "Tv" strut MK.	Type steel	Dia.	Length	Vertical "STv" strut MK.	Type steel	Dia.	Length	End stiffener MK. V1 Type steel	Dia.	Length	MK. V2 Type steel	Dia.	Length	MK. V4 Type steel	Dia.	Length	Double strut MK.	Type steel	Dia.	Length	Double strut MK.	Type steel	Dia.	Length (2 req'd)	Double strut MK.	Type steel	Dia.	Length
CORE END	C32T15BL-5985	9	A242	2"x1½"x.25"	1'-6"	5'-2"	10	A242	1.14	5'-3⅜"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	—	—	—	A242	1.14	2'-2½"	DS10	A242	.75	5'-3⅜"		A242	.75	2'-6¾"	—	—	—	—

NO.		REVISION	BY

REF DRWG.

7-AB1-14	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-5-68
7-AB4-7	10-4-68
SA-124	1-6-69
7-AB1-55	10-15-68
7-AB4-17.2	12-20-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

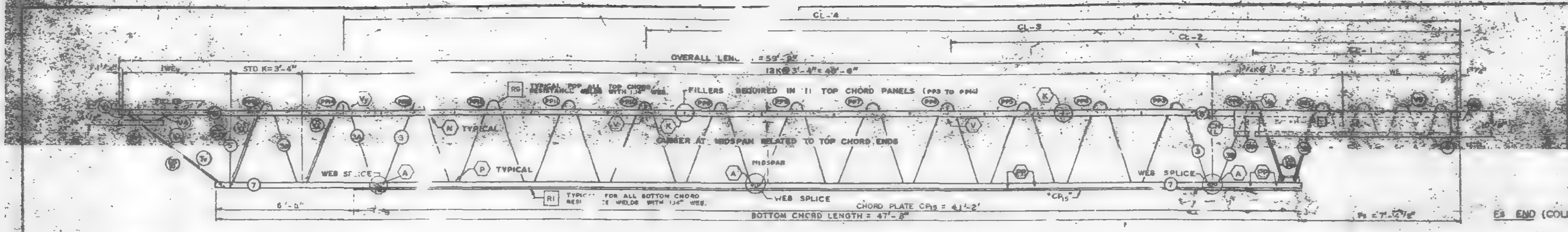
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T15BL x __-8½" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

LACLEDE STEEL COMPANY

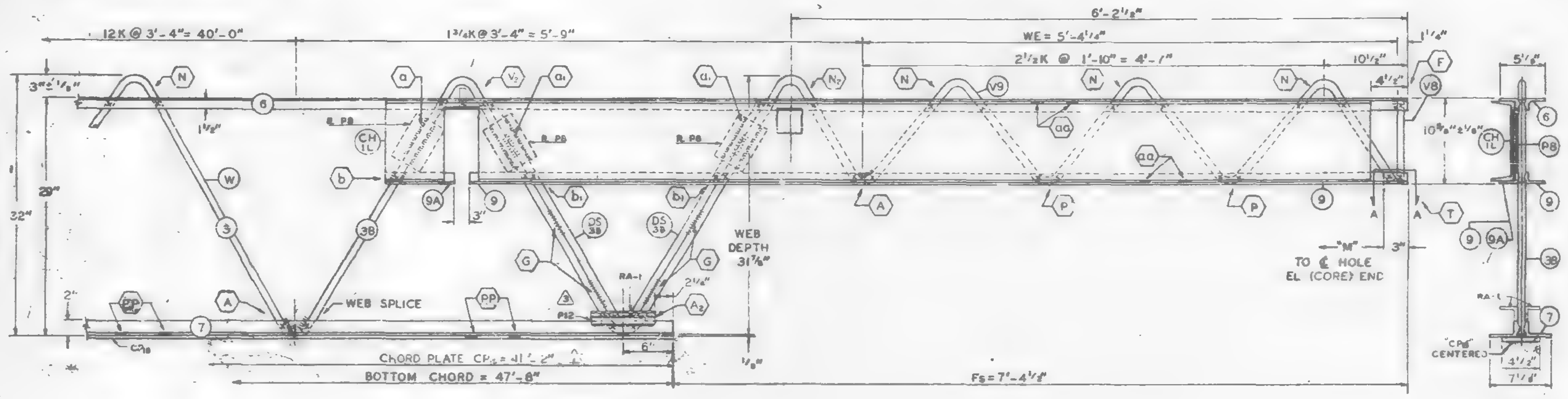
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-18	PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A.	DATE	DRAWN BY gdc DATE APRIL 11, 1969	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 11, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.		FABRICATION CONT. NO. WTC 221	SHEET NO. ST-215

I

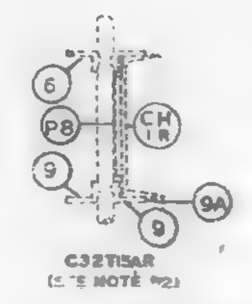


TRUSS ELEVATION

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	[illegible]	[illegible]
[illegible] DEPTH	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
OVERALL LENGTH	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]



Es END (COLUMN)

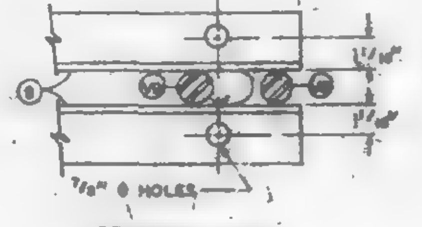


CH PLACED AS SHOWN FOR C32T15AR.
CH PLACED AS SHOWN FOR C32T15AL.

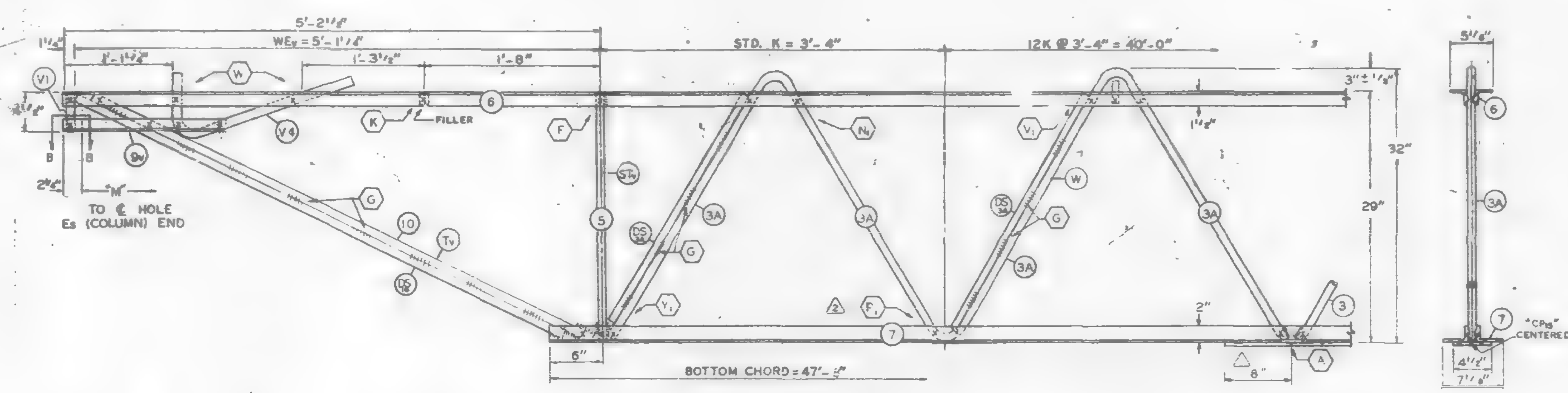
ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R1.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

NOTE 2

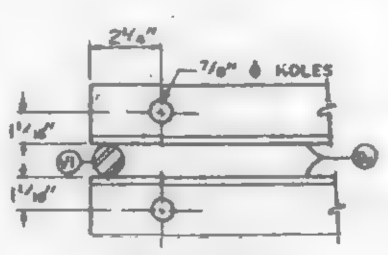
ALL DETAILS & ELEVATIONS SHOWN FOR C32T15AL TRUSSES ARE APPLICABLE TO C32T15AR TRUSSES WITH CHANNEL CH AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
3	12-10-68	AS NOTED	G.D.C.
2	11-7-68	AS NOTED	G.D.C.
1	10-31-68	CP.15	LWH

3 REF. DRWG.

7-AB1-18	10-4-68
7-AB1-54	11-[illegible]-68
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	10-[illegible]-68
SA-124	10-11-68
7-AB1-55	10-15-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE 1				CONNECTION FILLER			CHANNEL PLATES					REINFORCING ANGLES				SPECIAL PLATES (3)			
3	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH (2 REQ'D)
C32T15AL-599	6	A242	2"x1 1/2"x.37"	59'-9"	7	A36	3"x2"x.37"	47' 8"	3	A242	1.14"	[illegible]	11K @ 3'-4" = 36'-8"	12	1.14	59'-3 3/4"	CP_{15}	A36	4 1/2x.39	41'-2"	4	1.14	3"	P8	A36	3	4x.39	5 1/2"	[illegible]	A36	3"x2"x.37"	7 1/2"	[illegible]	A36	[illegible]	7 1/2"
									3A	A242	1.14"	12'-5 1/2"	2K @ 3'-4" = 6'-8"																							
									3B	A242	1.14"	10'-7 5/8"	1 3/4K @ 3'-4" = 5'-9"																							

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL (SEE NOTE #2)			
	3	MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T15AL-599	9	A242	2"x1 1/2"x.25"	2	9'-5"	5'-4 1/4"	DS 3B	A242	1.14	2'-6 3/4"	-	—	—	—	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH	A36	10 ⊏ 30	10'-0"
		9A	A242	2"x1 1/2"x.25"	1	8 1/2"																			CH	A36	10 ⊏ 30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE_V	DIAGONAL "T_V" STRUT				VERTICAL "ST_V" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
	3	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK	TYPE STEEL	DIA.	LENGTH
	C32T15AL-599	9V	A242	2"x1 1/2"x.25"	1'-7"	5'-1 1/4"	10	A242	1.14	5'-4 7/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	[illegible]	—	—	—	A242	1.14	2'-2 1/4"	DS 10	A242	.75	5'-4 7/8"	DS 3A	A242	.75	2'-6 3/4"	—	—	—	—

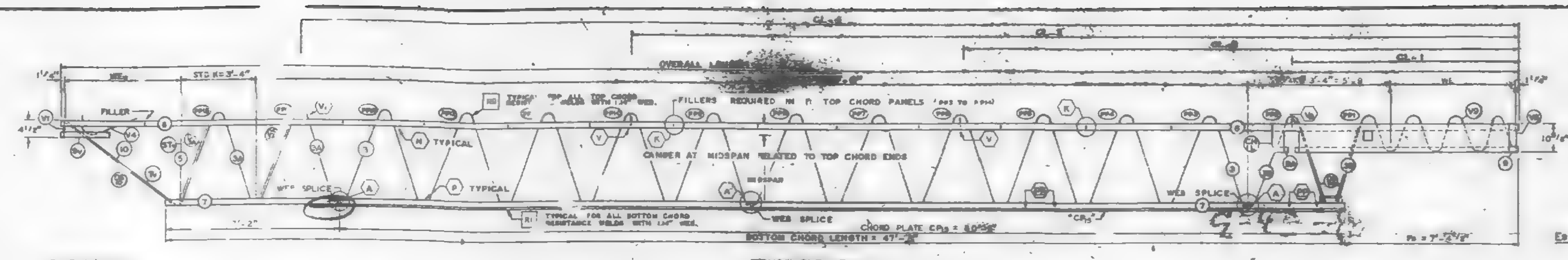
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T15AL x 59'-9" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

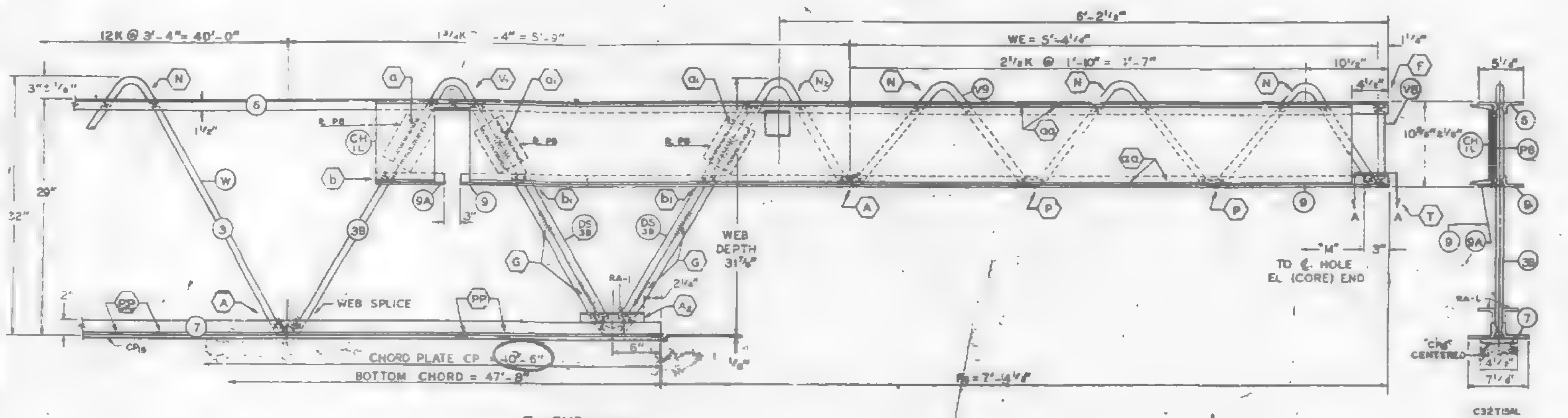
FABRICATION BY LACLEDE - STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-14	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A.	DATE 12/16/68	DRAWN BY gdc DATE OCT. 1, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE OCT. 1, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 215AL

FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8	± 1/4"



El END (CORE) — TRUSS ELEVATION — Es END (COLUMN)

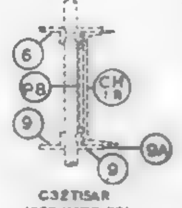


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED. (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [d1].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 & V4 DETAILS.

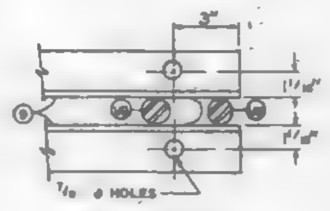
NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T15AL TRUSSES ARE APPLICABLE TO C32T15AR TRUSSES WITH CHANNEL CHR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

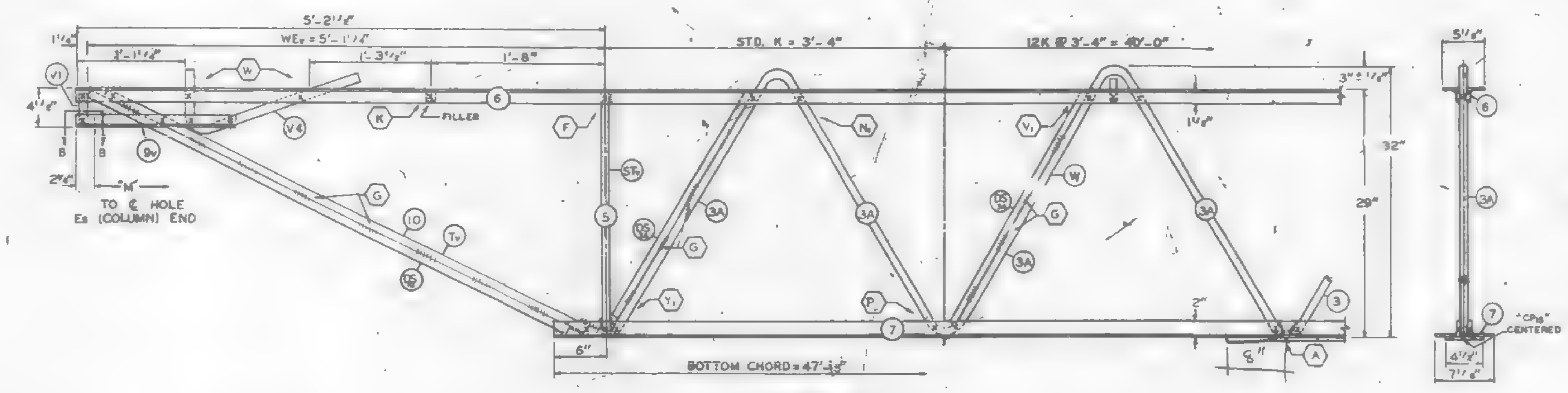


C32T15AR (SEE NOTE #2)

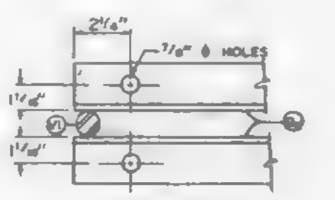
CHR PLACED AS SHOWN FOR C32T15AR.
CHL PLACED AS SHOWN FOR C32T15AL.



SECTION A-A



El END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB1-19	8-5-68
7-AB1-54	8-5-68
7-AB-53 & 55	7-22-68
7-AB3-2	-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	8-15-68
SA-124	8-1-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CHORD PLATE				CONNECTION FILLER			CHANNEL PLATES					[illegible] ANGLES				
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH
24T15AL-599	6	A242	2"x1½"x.37"	59'-[illegible]"	7	A36	3"x2"x.37"	47'-8"	3 / 3A / 3B	A242 / A242 / A242	1.14 / [illegible] / 1.14"	[illegible] / [illegible] / 10'-7¾"	[illegible]	12	1.14	59'-3¾"	CP	A36	[illegible]	[illegible]	4	1.14	3"	PB	A36	3	[illegible]	5⅞"	RA	A36	2	3"x2"x.37"	7⅛"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL (SEE NOTE #2)			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	24T15AL-599	9 / 9A	A242 / A242	2"x1½"x.25" / 2"x1½"x.25"	2 / 1	9'-5" / 8⅞"	5'-4¼"	DS	A242	1.14	2'-6¾"	—	—	—	—	A242	1.14	10½"	A242	1.14	8'-3⅞"	—	—	—	CHL / CHR	A36 / A36	10 [30 / 10 [30	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

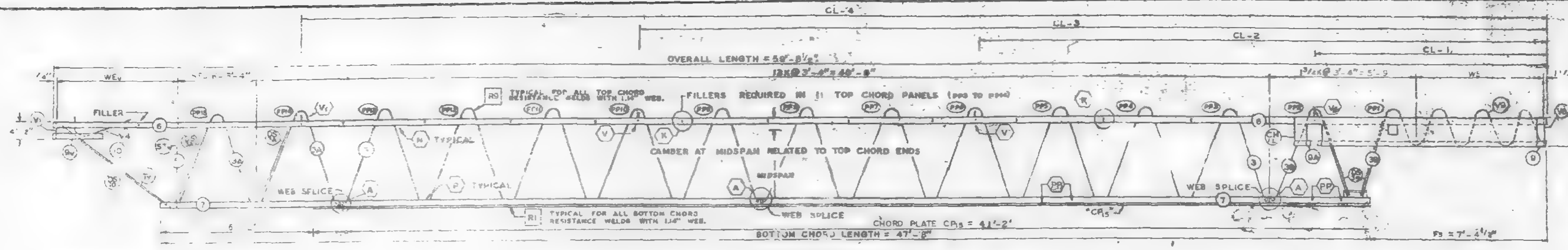
CORE END

El END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			MK. V3			MK. V4			DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA.	LENGTH
	24T15AL-599	9v	A242	2"x1½"x.25"	1'-7"	5'-1¼"	10	A242	1.14	5'-4⅞"	5	A242	1.14	2'-4¾"	A242	1.14	4⅜"	—	—	—	A242	1.14	2'-2½"	DS	A242	.75	5'-4⅞"	DS	A242	.75	2'-6⅜"	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T15AL x 59'-9" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

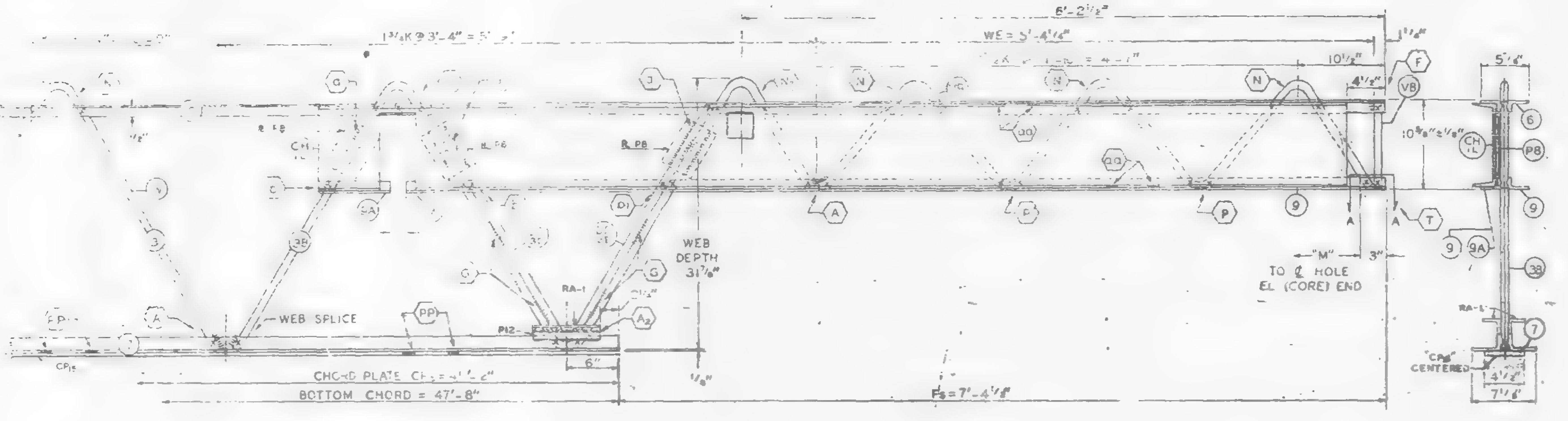
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-16
PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A. DATE
DRAWN BY gdc DATE OCT. 1, 1968
APPROVED FOR FABRICATION BY: ______ FOR FABRICATOR DATE
CHECKED BY T.M.CHURA DATE OCT. 1, 1968
IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO ST 215AL



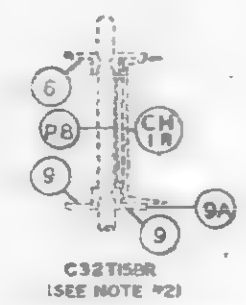
TRUSS ELEVATION

Es END (COLUMN)

FABRICATION REQUIREMENTS 1		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8 1/2"	± 3/8"
WEB [illegible]	[illegible]	[illegible]



Es END (COLUMN)

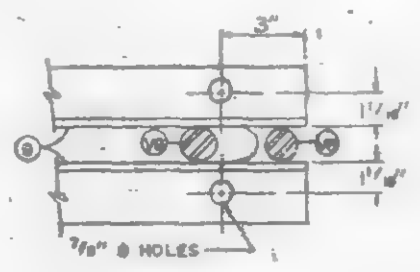


CH1R PLACED AS SHOWN FOR C32T15BR
CH1L PLACED AS SHOWN FOR C32T15BL

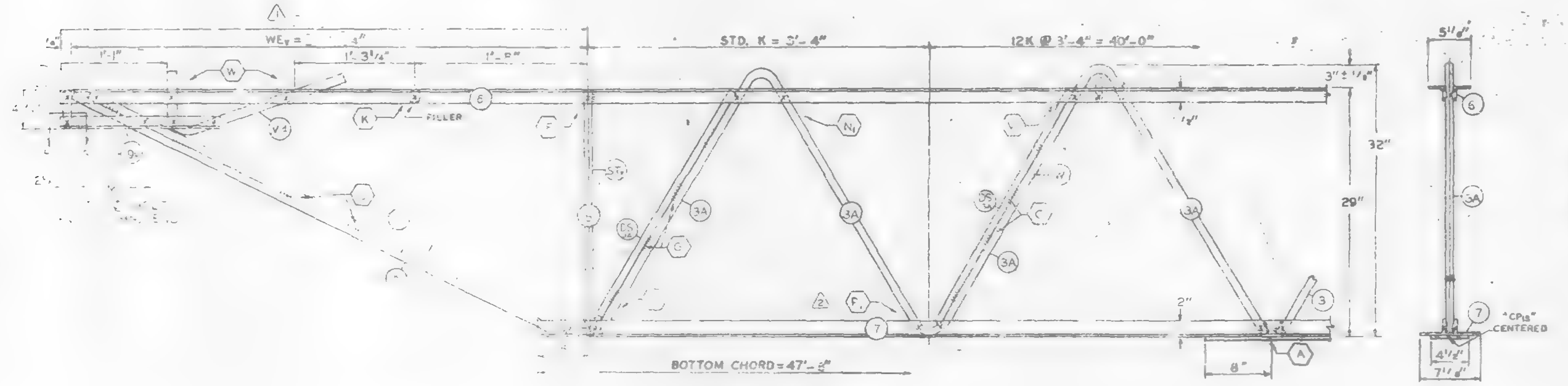
ALL PANE[illegible]
ARC WE[illegible]
AND AT BOTTOM [illegible]
LETTERS IN [illegible]
LETTERS AND [illegible]
RESISTANCE WE[illegible]
QUALITY CONTROL [illegible]
ALL WELD DETA[illegible] ST290, ST29[illegible]
ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST402.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 & V4 DETAILS.

NOTE 2

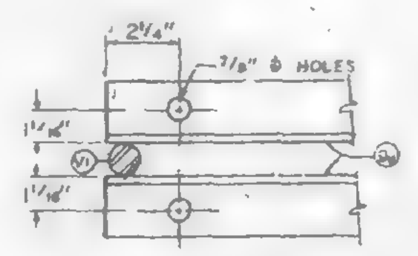
[illegible]



SECTION A-A



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
[illegible]	8-5-69	AS NOTED	G.D.C.

REF DRWG 7-AB-[illegible] ... 12-4-68
[illegible] ... 1-6-69
[illegible] ... 12-15-68
7-AB4-17.2 ... 12-20-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

[illegible]	[illegible]	[illegible]	MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE				CONNECTION FILLER			CHANNEL PLATES					EINFORCING ANGLES			SPECIAL PLATES		
			MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C[illegible] 59[illegible]	[illegible] 59'-8 1/2" A36 3"x2"x[illegible]	47'-8"	3 / 2 / 25	A242 / A242 / A242	1.14 / 1.14 / 1.14	68'-6 3/4" / 2'-5 3/4" / 10'-7 3/8"	11K @ 3'-4" = 36'-8" / 2K @ 3'-4" = 6'-8" / 1 3/4K @ 3'-4" = 5'-3"	12	1.14	59'-3 1/4"	CP15	A36	[illegible]	41'-2"	4	1.14	3"	P8	A36	3	[illegible]	5 1/2	A36	3"x2"x.37	[illegible]	A36	[illegible]	7 1/2"

ES END

TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL (SEE NOTE #2)			
	MK.	TYPE STEEL	SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T15BL-5985	8 / 8A	A242 / A242	2"x[illegible]x.25" / 2"x[illegible]x.25"	2 / 1	9'-5" / 8 1/2"	5'-4 1/4"	DS	A242	1.14	2'-6 3/4"	—	—	—	—	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH1R / CH1L	A36 / A36	10[illegible]30 / 10[illegible]30	10'-[illegible] / 10'-[illegible]

CHECK DIMENSION FOR TRUSS FAB				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	S
9'-6 1/8"	22'-10 1/8"	36'-2 1/2"	49'-6 1/2"	7[illegible]

CORE END

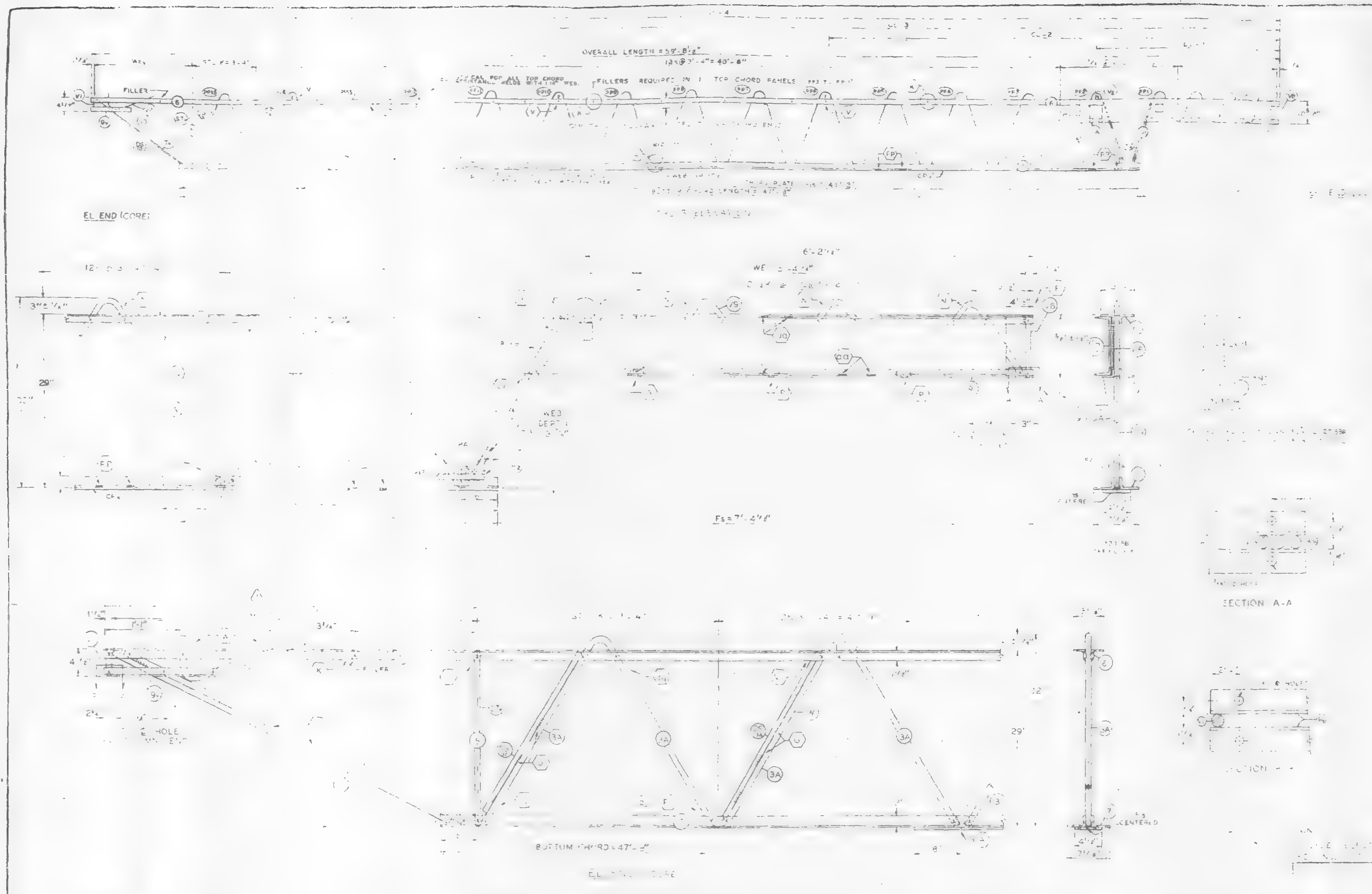
E. END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH	⚠	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA.	LENGTH
	C32T15BL-5985	9	A242	2"x1 1/2"x.25"	1'-6"		10	A242	1.14	5'-4 3/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/4"	—	—	—	A242	1.14	2'-2 1/2"	DS	A242	[illegible]	5'-4 3/8"	[illegible]	A242	.35	2'-6 3/4"	—	—	—	—

FLOOR TRUSS [illegible]
[illegible]
WORL[illegible] TRADE CENTER [illegible]
[illegible]
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T15BL [illegible]-8 1/2" [illegible] (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-14	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. [signature]	DATE 8/11/69	DRAWN BY gdc DATE APRIL 11, 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE APRIL 11, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221-	SHEET NO. ST 215-BL



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2¹/16"	± 3/8"
DESIGN DEPTH	29'	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	3' [illegible] /8	± 1/4"

SEE SHEET ST 65 FOR V1 & V4 DETAILS.

NO.	DATE	REVISION	BY

REF DRWG.	
7-AB1-14	10-4-68
7-AB1-24	1-6-69
7-AB1-53	7-20-68
7-AB3-2	[illegible]
7-AB3-24	8-15-68
7-AB4-7	10-4-68
7-A-124	1-6-69
7-AB1-55	10-15-68
7-AB4-17.2	12-20-68

TRUSS DESIGNATION	[illegible]	MAIN WEB	FILLER NO.	FILLER DIA.	HOLES	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLER NO.	DIA	LENGTH	CHANNEL PLATES MK	TYPE STEEL	SIZE	REINFORCING ANGLES MK	TYPE STEEL	ANGLE SIZE	LENGTH	SPECIAL PLATES TYPE STEEL	SIZE	LENGTH
C32T156L-5985	8½	A242 [illegible]	12	[illegible]	59'-3¼"	CP	A36	4½x.39	41'-2"	4	1.14	3"	PE	A36	3½x.36		A36	3"x2"x.37"	7'-2"	A36	[illegible]	[illegible]

COLUMN END

TRUSS DESIGNATION	[illegible]	END STIFFENER MK V8 TYPE STEEL	DIA	LENGTH	MK V8 TYPE STEEL	DIA	LENGTH	MK V1 TYPE STEEL	DIA	LENGTH	CHANNEL (SEE NOTE #2) MK	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T156L-5985	A242 [illegible]	A242	1.14	10½"	A242	1.14	8'-3⅞"	—	—	—	CH	A36	10 C 30	10'-0"
											CH	A36	10 C 30	10'-0"

CORE END

TRUSS DESIGNATION	[illegible]	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T156L-5985	1'-6" ... A242 ... 3¼ ... A242 1.14 2'-4⅞"	A242	1.14	4⅝"	—	—	—	A242	1.14	2'-2½"	DS	A242	.75	5'	DS	A242	.75	2'-[illegible]¾"	—	—	—	—

FLOOR TRUSS DETAILS

THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T156L [illegible] 8½" [illegible] (SEE NOTE #2)

WORLD TRADE CENTER TOWERS A & B

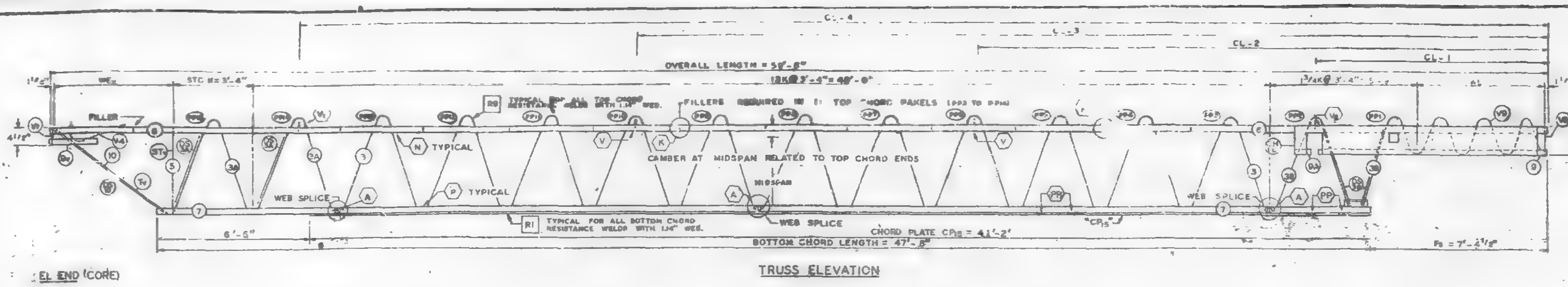
6/4/69

DRAWN BY gdc
DATE APRIL 11, 1969
CHECKED BY [illegible] CHOBRA
DATE APRIL 11, 1969

PLATE

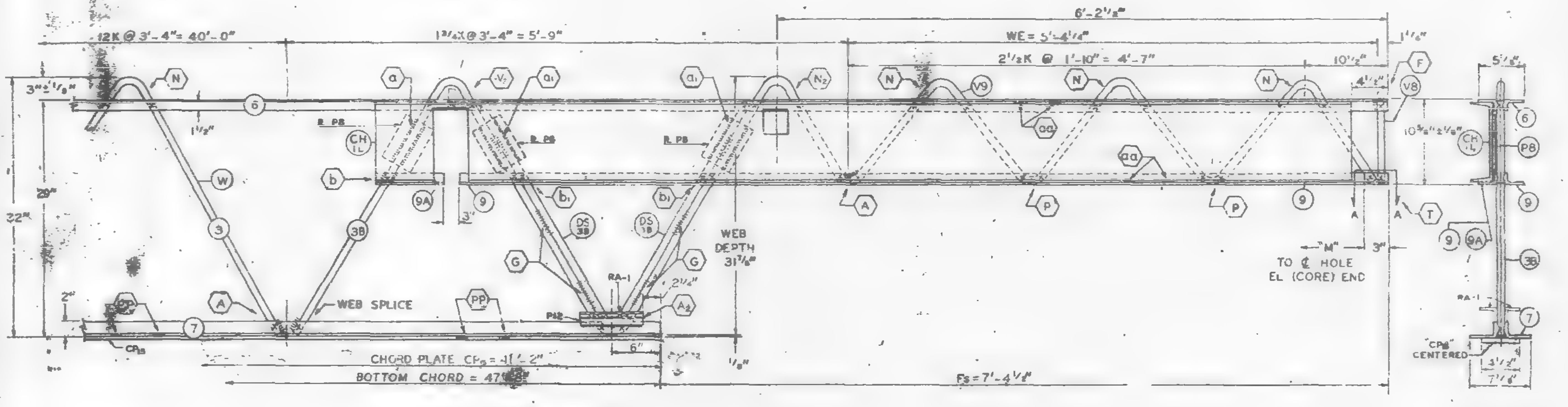
IN CHARGE OF PROD. DEV.

SHEET NO. ST 215BL

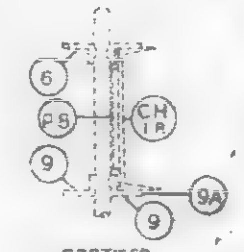


TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2" [illegible]	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



Es END (COLUMN)



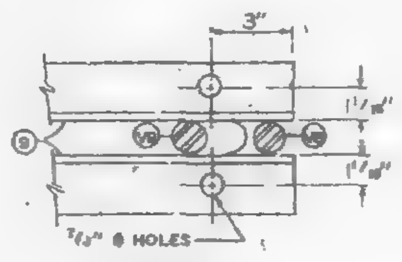
C32T15CR (SEE NOTE #2)

CH_IR PLACED AS SHOWN FOR C32T15CR.
CH_IL PLACED AS SHOWN FOR C32T15CL.

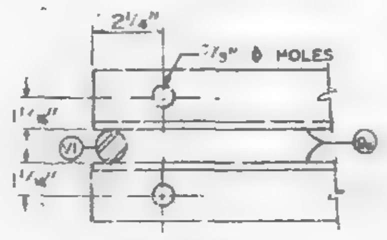
ALL PANEL POINTS RESISTANCE WELDED (X).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL i.e., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e., [RI].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 & V4 DETAILS.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T15CL TRUSSES ARE APPLICABLE TO C32T15CR TRUSSES WITH CHANNEL CH_IR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



SECTION B-B

El END (CORE)

NO.	DATE	REVISION	BY

REF DRWG.	
7-AB1-14	10-4-68
7-AB1-54	[illegible]
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	10-4-68
SA-124	10-11-68
7-AB1-55	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLE	CHORD PLATE				CONNECTION FILLER			CHANNEL PLATES					REINFORCING ANGLES				SPECIAL PLATES		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	LENGTH	TYPE STEEL	SIZE	LENGTH
C32T15CL-598	6	A242	2"x1½"x.37"	59'-8"	7	A36	3"x2"x.37"	47'-8"	3 / 3A / 3B	A242 / A242 / A242	1.14 / 1.14 / 1.14	68'-[illegible] / 12'-[illegible] / 10'-7⅞"	11K@3'-4"=36'-8" / 2K@3'-4"=6'-8" / 1¾K@3'-4"=5'-9"	12	1.14	59'-2¾	CP	A36	[illegible]	41'-2"	4	1.14	[illegible]	P8	A36	3	[illegible]	5½"	[illegible]	[illegible]	[illegible]	[illegible]	A36	[illegible]	7½

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V6			MK. V8			MK. V10			CHANNEL (SEE NOTE #2)		
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK. / TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T15CL-598	9 / 9A	A242 / A242	[illegible]	[illegible]	9'-5" / 8½"	5'-4¼"	DS	A242	1.14	2'-6¾"	-	—	—	—	A242	1.14	10½"	A242	1.14	8'-3⅛"	—	—	—	A36 / A36	10 [30 / 10 [30	[illegible]

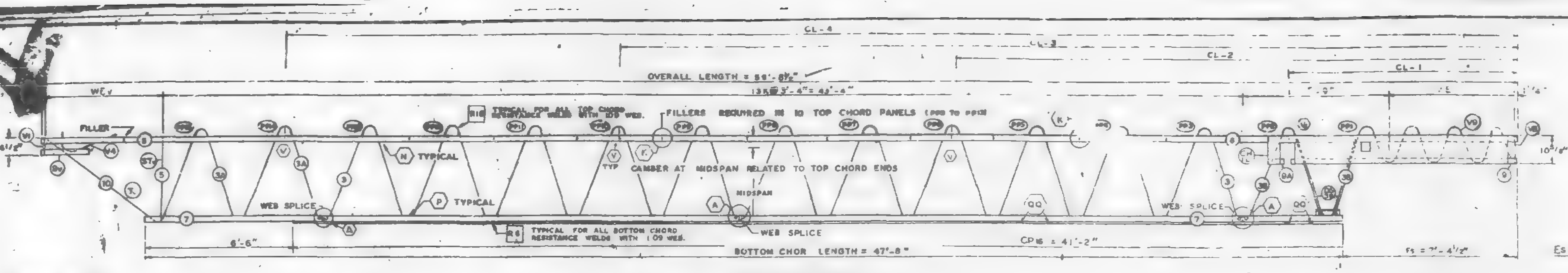
CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	[illegible]'-10½"	36'-2½"	49'-[illegible]½"	7'-[illegible]

EL END	TRUSS DESIGNATION	BEARING ANGLES				WE_V	DIAGONAL "T_V" STRUT				VERTICAL ST_V STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA.	LENGTH
	C32T15CL-598	9	A242	2"x1½"x.25"	1'-6"	5'-0¼"	10	A242	1.14	5'-4⅛"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅞"	—	—	—	A242	1.14	2'-2½"	DS	A242	.75	5'-4¼"	[illegible]	A242	.75	2'-[illegible]	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T15CL x 59'-8" LONG (SEE NOTE #2)
WORLD TRADE CENTER TOWERS A & B

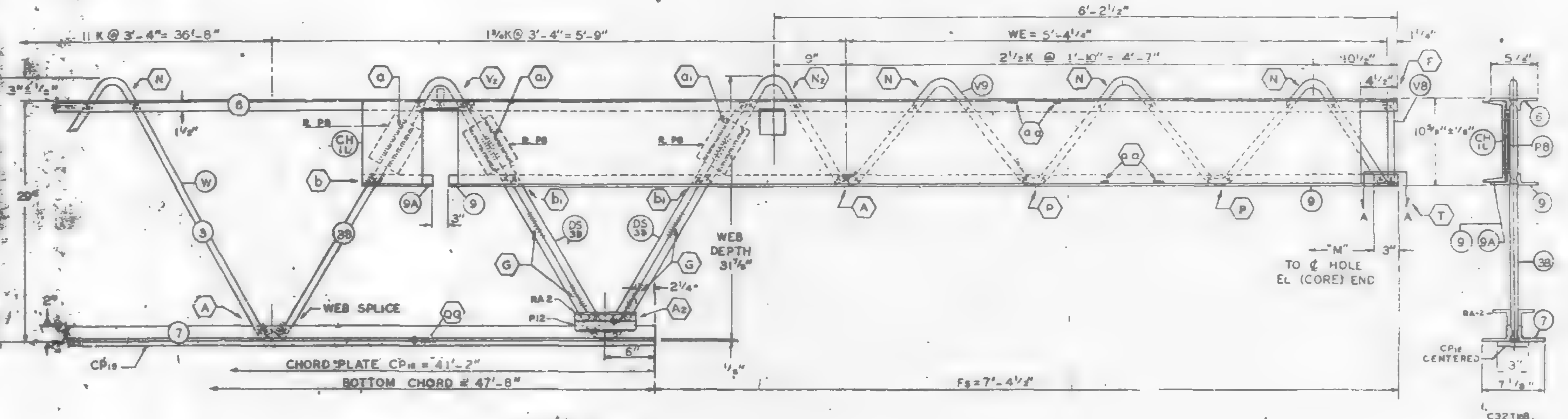
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-14	PLATE
APPROVED FOR FABRICATION FOR P. of N.Y.A.	DATE 4/10/69	DRAWN BY [illegible] DATE MAR 28 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE MAR 28 1969	IN CHARGE OF PROD. DEV.
TAKEN BY A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 215CL



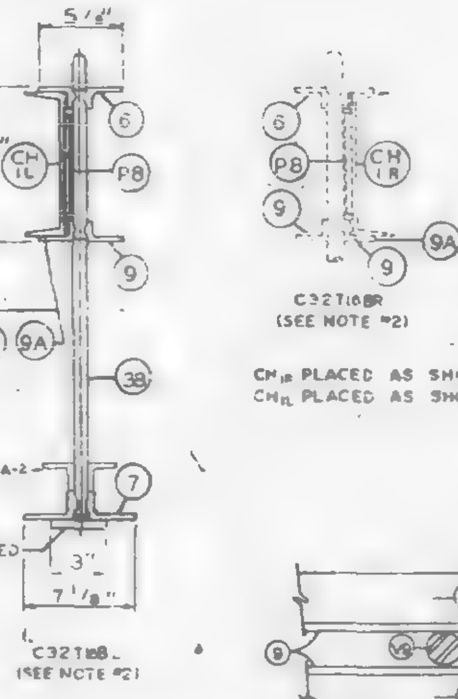
TRUSS ELEVATION

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [ ].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.

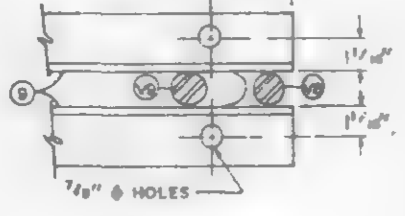


Es END (COLUMN)

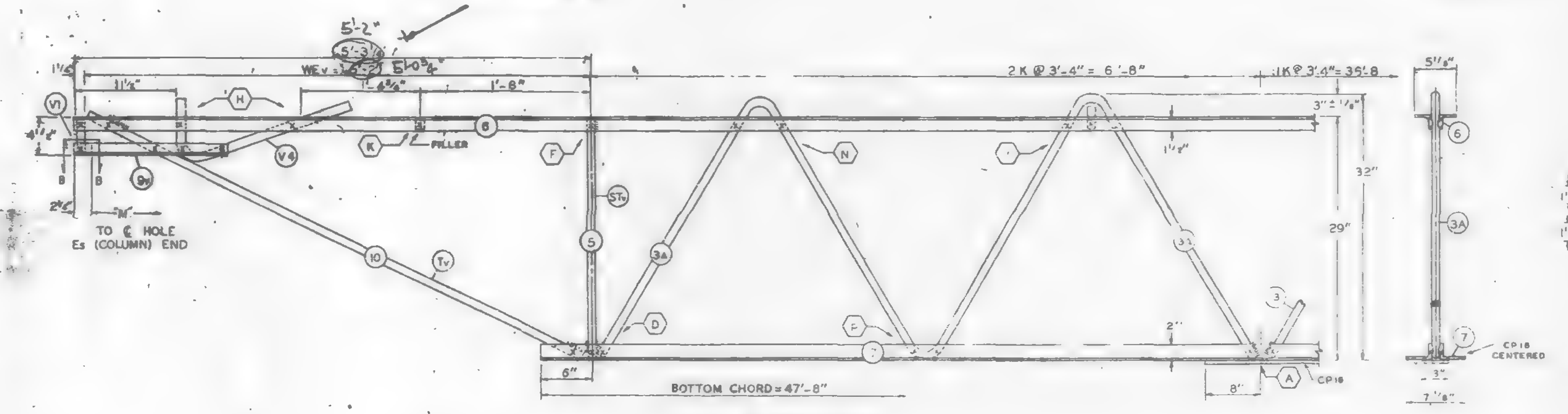


NOTE 2

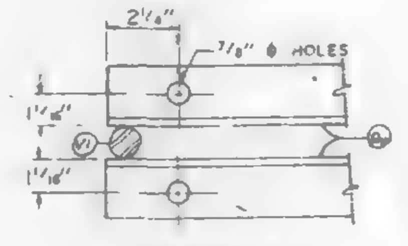
ALL DETAILS & ELEVATIONS SHOWN FOR C32T16BL TRUSSES ARE APPLICABLE TO C32T16BR TRUSSES WITH CHANNEL CH16 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB1-13	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-69
7-AB3-24	8-15-68
7-AB4-17	10-4-68
SA-124	1-6-69
7-AB1-55	10-15-68
7-AB4-172	12-20-68

SKILLING - HELLE CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 4/25/69 By SK

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES				SPECIAL PLATES			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	MK	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C32T16BL-598.5	6	A242	2"x1½"x.31	59'-8½"	7	A36	3"x2"x.33"	47'-8"	3 3A 3B	A36 A242 A242	109 114 114	68'-8 1/4" 12'-5 1/2" 10'-7 3/8"	11 K @ 3'-4" = 36'-8" 2 K @ 3'-4" = 6'-8" 1 3/4 K @ 3'-4" = 5'-9"	11	109"	59'-3¼"	CP16	A36	3"x.25	41'-2"	4	1.09	3"	P8	A36	3	4"x2"x.39	5'-2	A2	A36	3"x2"x.33"	7½"	P12	A36	1"x3"6"	7½"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T16BL-598.5	9 9A	A242 A242	[illegible] [illegible]	2 1	[illegible] [illegible]	5'-4¼"	DS	A242	L14	8'-6¾"	—	—	—	—	A242	114	10½"	A242	L14	8'-3⅞"	—	—	—	CH	A36 A36	10C 20 10C 20	10'-0" 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	
9'-6½"	2'-10½"	36'-2½"	49'-6½"	7'-4½"

CORE END

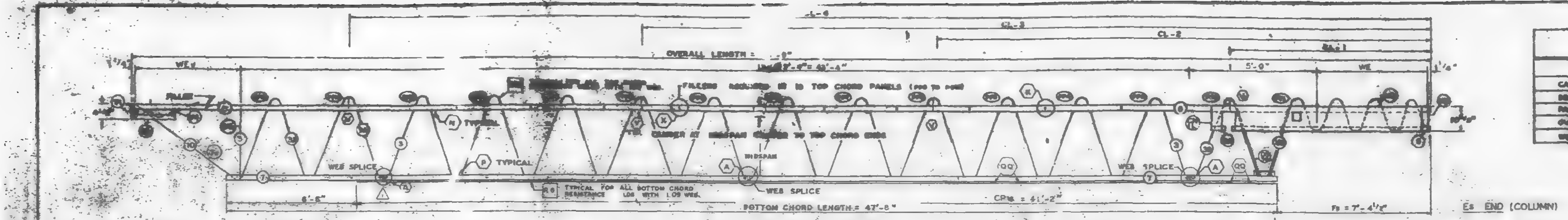
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	C32T16BL-598.5	9B	A242	2"x1½"x.25	1'-6"	[illegible]	10	A242	114	5'-6⅛"	5	A242	114	2'-4⅞"	A242	114	4⅜"	—	—	—	A242	114	2'-2½"	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T16BL (SEE NOTE 2) x 59'-8½" LONG
WORLD TRADE CENTER TOWERS A & B

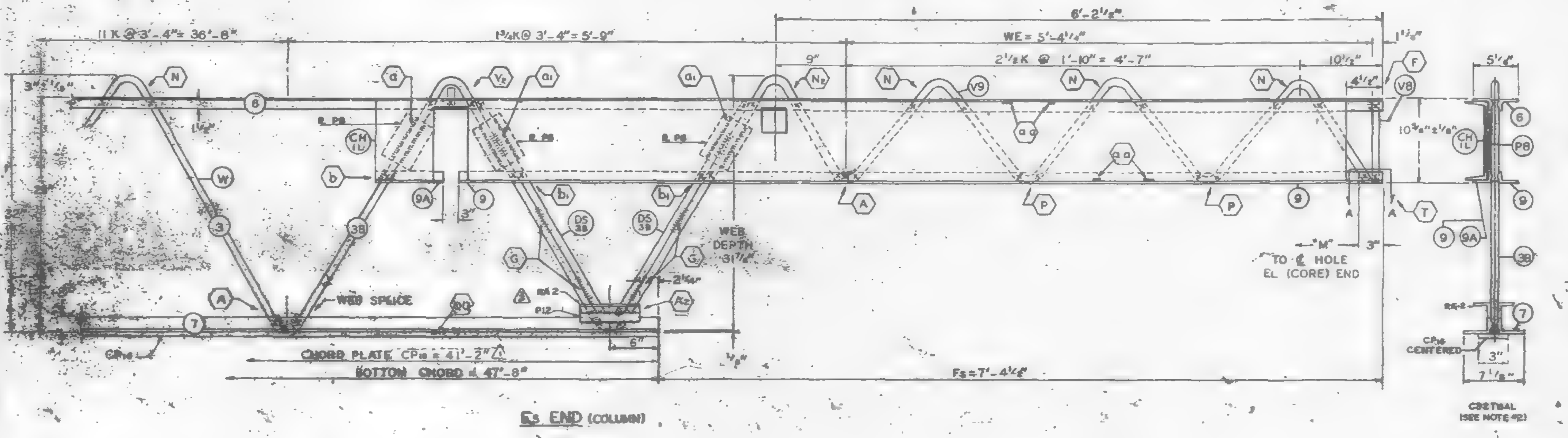
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-3	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE	DRAWN BY GAC DATE APRIL 11, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE APRIL 11, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY LACLEDE STEEL CO.	FABRICATION CONT. NO. WTC 221	SHEET NO. ST 216BL



TRUSS ELEVATION

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	29"	[illegible]
PANEL K	3'-4"	[illegible]
OVERALL LENGTH	59'-9"	[illegible]
WEB DEPTH	31 7/8"	1/32"

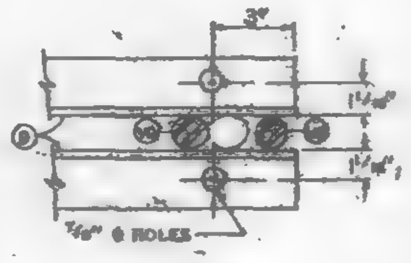


Es END (COLUMN)

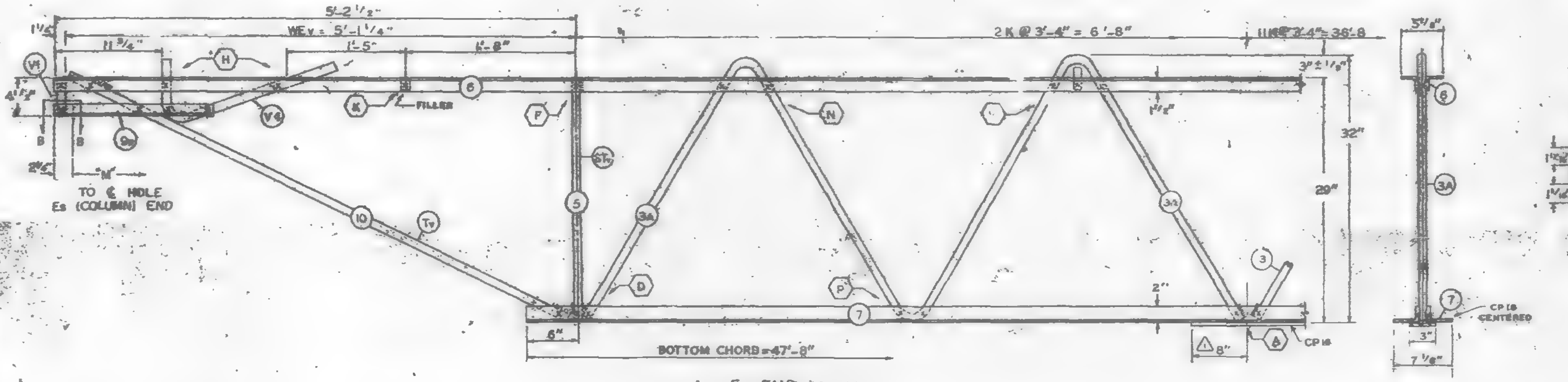
ALL PANEL POINTS RESISTANCE WELDED. (✱).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL i.e. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. i.e.
△3 ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

NOTE 2

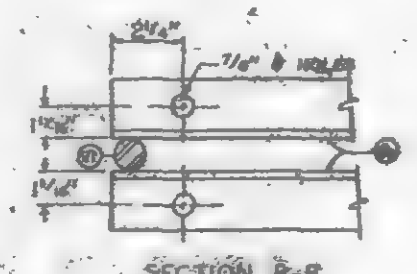
ALL DETAILS & ELEVATIONS SHOWN FOR C32T16AL TRUSSES ARE APPLICABLE TO C32T16AR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



EL END (CORE)



SECTION B-B

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	DIA.	"M" C/C HOLES	CHORD PLATE △ MK.	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS NO	DIA	LENGTH	CHANNEL PLATES MK	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES MK.	TYPE STEEL	ANGLE SIZE	LENGTH	SPECIAL PLATES MK.	TYPE STEEL	SIZE	LENGTH
C32T16AL-599	6	A242	2"x1 1/2"x.31	59'-9"	7	A36	3"x2"x.33"	47'-8"	3 / 3A / 3B	A36 / A242 / A242	1.09 / 1.14 / 1.14	[illegible] / [illegible] / 10'-7 5/8"	[illegible]	11	1.09"	59'-3 3/4"	CP16	A36	3"x.25	41'-2"	4	1.09	3"	P8	A36	3	4 1/2"x.39	5 1/2"	RA2	A36	3"x2"x.33"	7 1/2"	PL2	A36	1"x3/8"	7 1/2"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T16AL-599	9 / 9A	A242 / A242	[illegible] / [illegible]	2 / 1	9'-5" / 8 1/2"	5'-4 1/4"	DS	A242	1.14	2'-6 3/4"	—	—	—	—	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH	A36 / A36	10[30 / 10[30	10'-0" / 10'-2"

CORE END

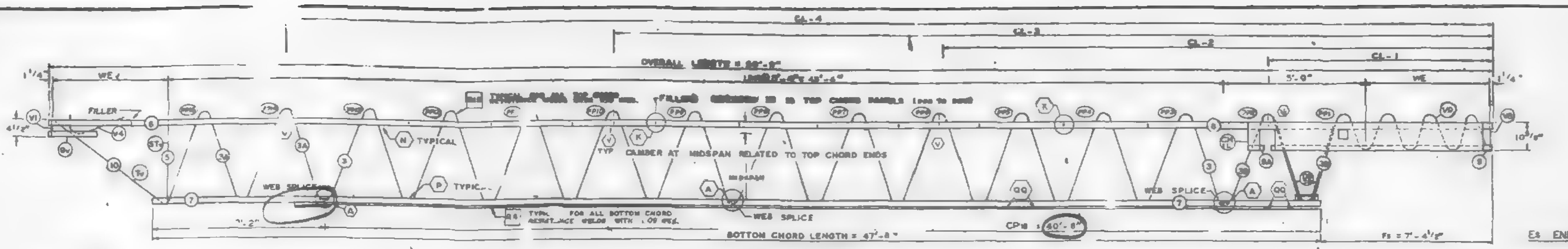
EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
	C32T16AL-599	[illegible]	A242	2"x1 1/2"x.25	1'-7"	5'-1 1/4"	10	A242	1.14	5'-8 1/2"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T16AL (SEE NOTE 2) x 59'-9" LONG
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 2-AB1-15	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. (signature) DATE 12/16/68	DRAWN BY gdc DATE OCT. 8, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY: [illegible] DATE OCT. 9, 1968	IN CHARGE OF [illegible]
LACLEDE STEEL CO. DETAILED BY [illegible]	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST [illegible]

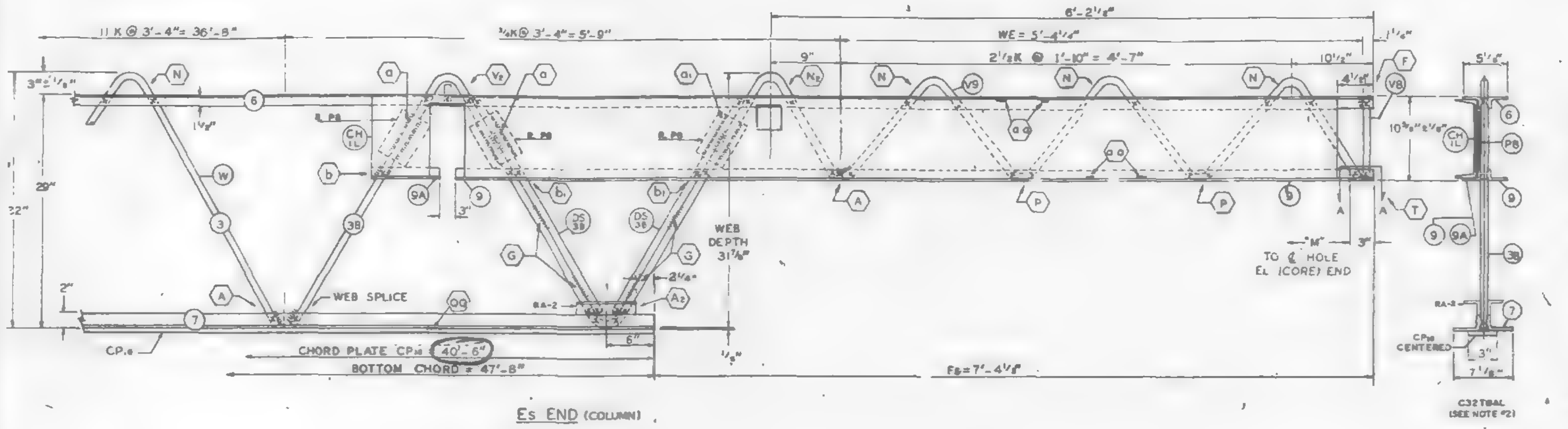


EL END (CORE)

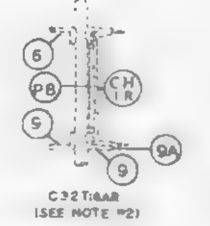
TRUSS ELEVATION

Es END (COLUMN)

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



Es END (COLUMN)



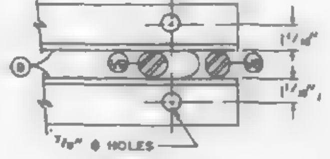
CH16 PLACED AS SHOWN FOR C32T16AR
CH16 PLACED AS SHOWN FOR C32T16AL

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie.. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE
RESISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, ie..
ALL WELD DETAILS SHOWN ON SHEETS ST29, ST29.

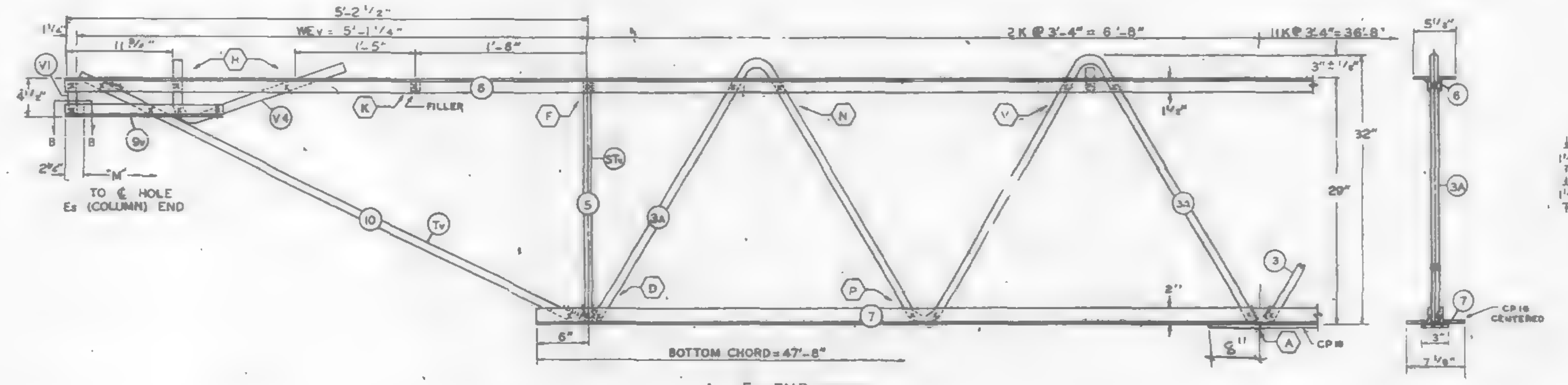
ALL CHANNEL DETAILS SHOWN ON SHEET ST 402
CHORD PLATE DETAILS SHOWN ON SHEET ST 283

NOTE 2

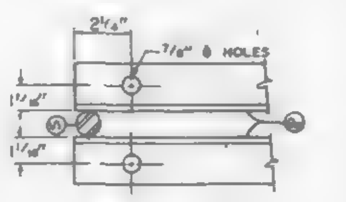
ALL DETAILS & ELEVATIONS SHOWN FOR C32T16AL TRUSSES ARE APPLICABLE TO C32T16AR TRUSSES WITH CHANNEL CH16 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB1-15	8-15-68
7-AB1-54	8-15-68
7-AB1-53 & 56	7-22-68
7-AB2-2	1-3-68
7-AB3-24	8-15-68
7-AB4 17 & 17.2	8-15-68
SA-124	8-1-68

Ch 10/29/68 SK

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	
C32T16AL-599	6	A242	2"x1 1/2"x.31	59'-9"	7	A36	3"x2"x.33"	47'-8"	3 / 3A / 3B	A36 / A242 / A242	1.09 / L14 / L14	[illegible]	[illegible]	11	1.09	59'-3 3/4"	CP16	A36	3"x.25	40'-6"	4	1.09	3"	PB	A36	3	[illegible]	5 1/2"	[illegible]	A36	3"x2"x.33	7 1/2"	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T16AL-599	9 / 9A	A242 / A242	[illegible]	2 / 1	[illegible]	5'-4 1/4"	DS	A242	L14	2'-6 3/4"	—	—	—	—	A242	L14	10 1/2"	A242	L14	8'-3 7/8"	—	—	—	CH	A36 / A36	[illegible]	[illegible]

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/8"

CORE END

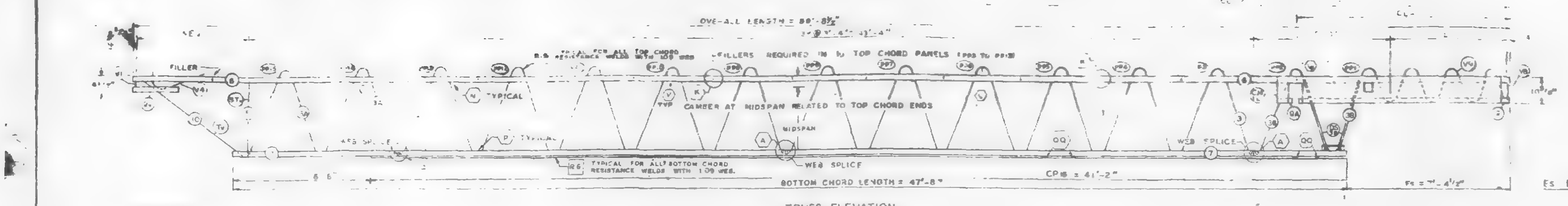
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T16AL-599	9v	A242	2"x1 1/2"x.25	1'-7"	5'-1 1/4"	10	A242	L14	5'-6 1/2"	5	A242	L14	2'-4 3/8"	A242	L14	4 3/8"	—	—	—	A242	L14	2'-2 1/2"	-	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T16AL (SEE NOTE 2) x 59'-9" LONG
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

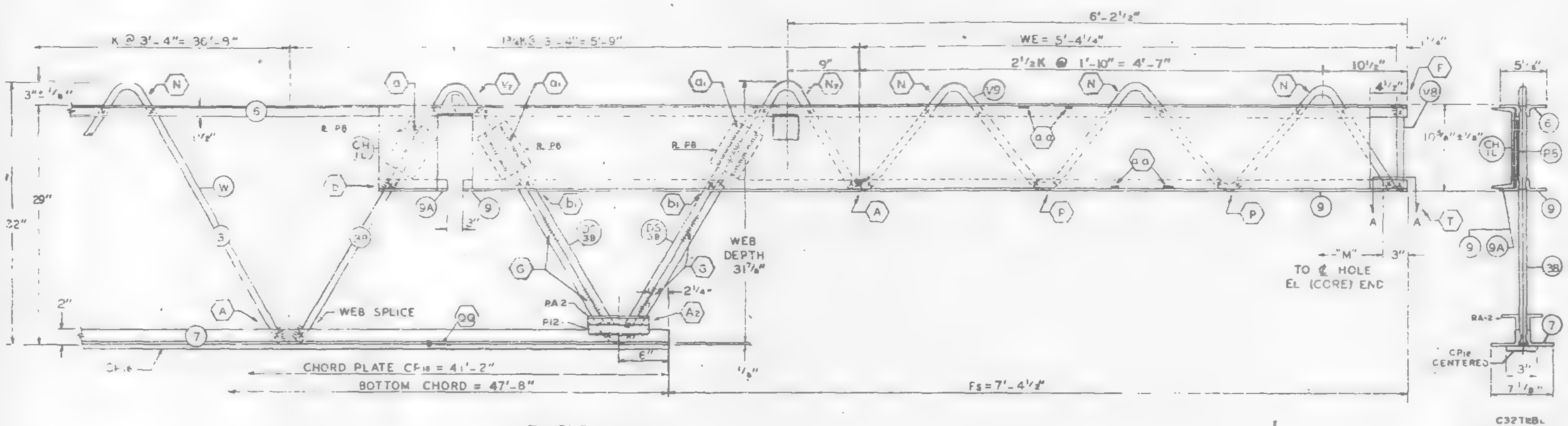
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-13	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.	DATE	DRAWN BY adc DATE OCT. 8, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE OCT 9 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO. ST 216AL



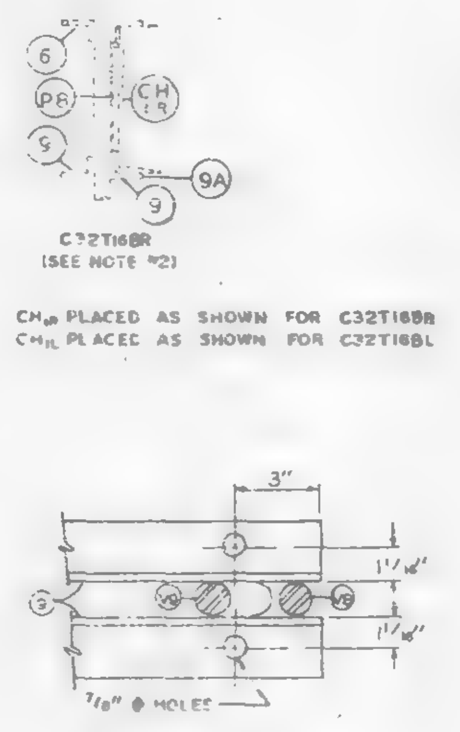
EL END (CORE)

TRUSS ELEVATION

Es END (COLUMN)



Es END (COLUMN)

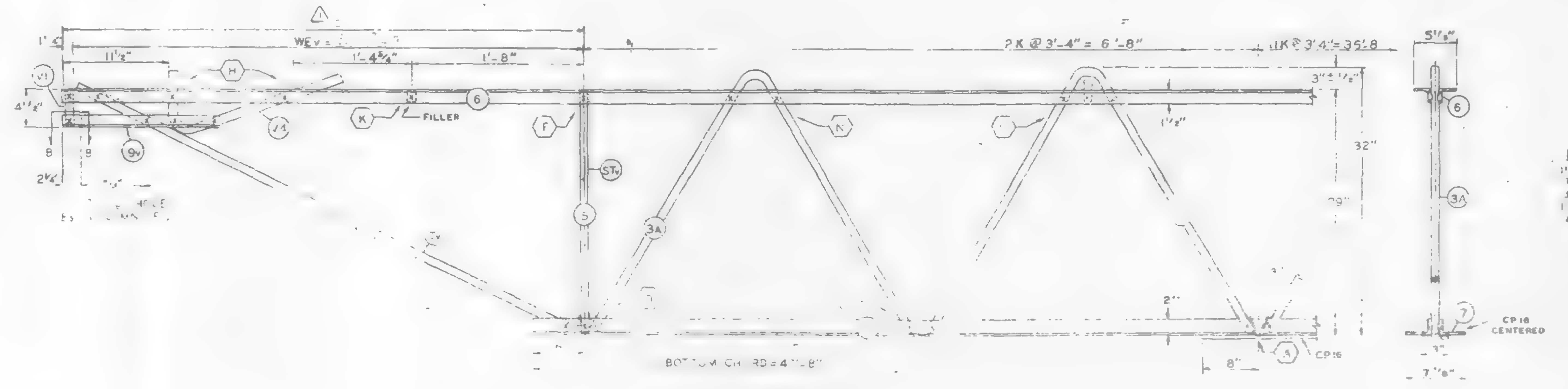


SECTION A-A

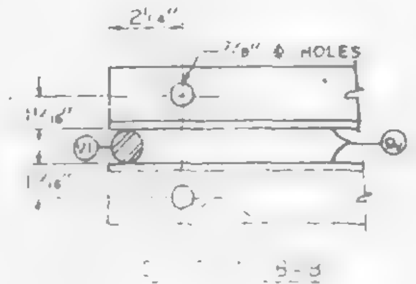
- ALL PANEL POINTS RESISTANCE WELDED. (x).
- ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
- LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
- LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R0].
- ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 292 & ST 293
- ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
- CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T16BL TRUSSES ARE APPLICABLE TO C32T16BR TRUSSES WITH CHANNEL CH18 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



EL END (CORE)



SECTION B-B

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	59'-8½"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

NO.	DATE	REVISION	BY
1	[illegible]-69	AS NOTED	DCC

REF DRWG	
7-AB1-15	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
[illegible]-2	[illegible]-3-68
7-AB3-24	8-15-68
[illegible]	10-4-68
SA-24	1-6-69
7-AB1-55	10-15-68
7-AB4-172	12-20-68

CHECK DIMENSION FOR TRUSS FAB			
LOCATION OF TRANS. TRUSS			
CL-1	CL-2	CL-3	[illegible]
9'-6½	[illegible]	36'-2½"	[illegible]

CHANNEL PLATES — REINFORCING ANGLES — SPECIAL PLATES

C32T16BL 598.5 [illegible] A36 [illegible] A36 3 [illegible] A36 3×2½×3/8 7½" A36 [illegible]

PAINT

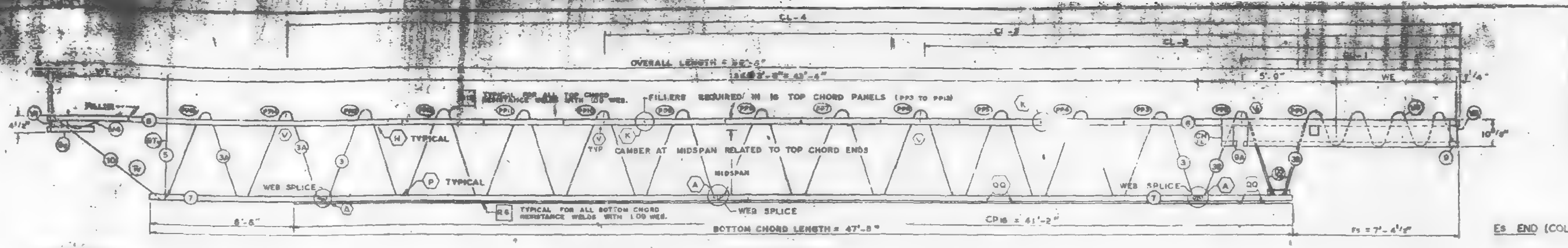
LACLEDE ELECTROCOAT
RED No. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
[illegible] NEW YORK AUTHORITY

FLOOR TRUSS C32T16BL [illegible] 59'-8½" LONG
WORLD TRADE CENTER TOWERS A & B

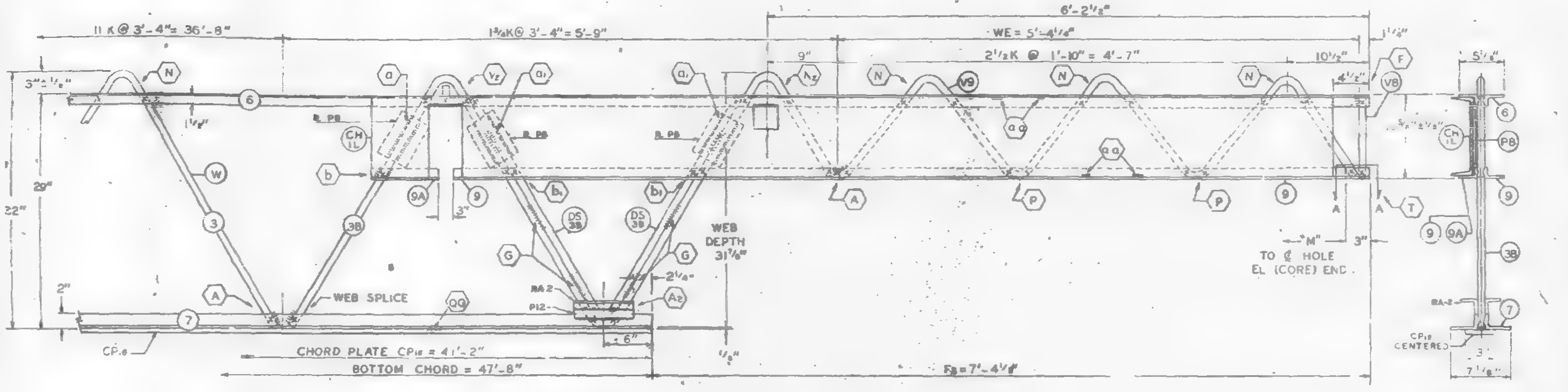
FABRICATION BY LACLEDE STEEL COMPANY
AT MADISON, ILLINOIS
APPROVED FOR FABRICATION
BY FOR FABRICATOR
6/4/69
APRIL
LACLEDE STEEL CO.

[redacted]

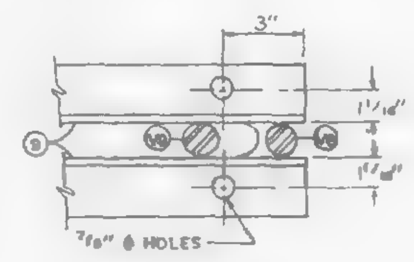


TRUSS ELEVATION

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± [illegible]
DESIGN DEPTH	29"	± 1/[illegible]"
PANEL K	3'-4"	± 1/[illegible]"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



Es END (COLUMN)

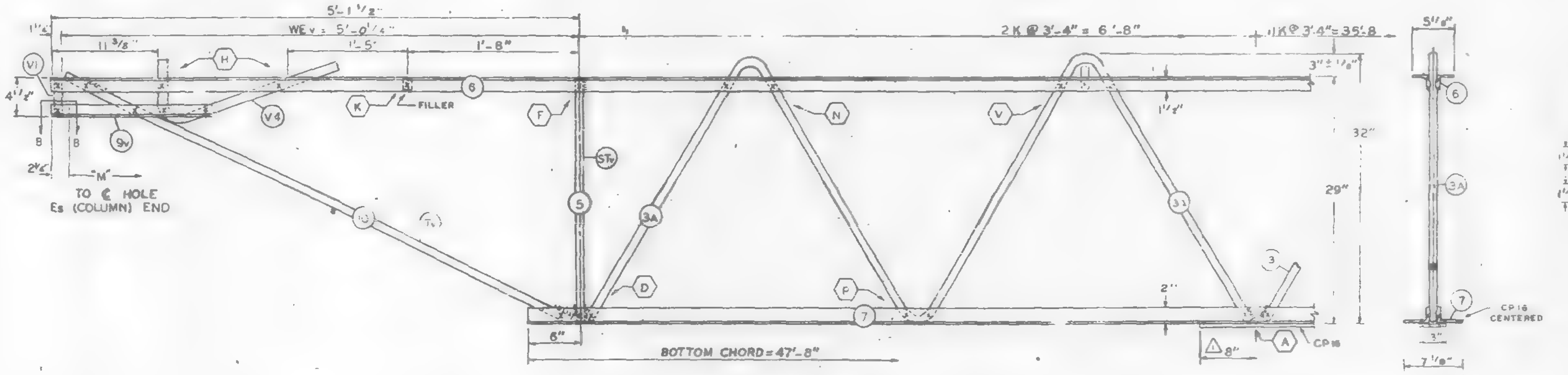


SECTION A-A

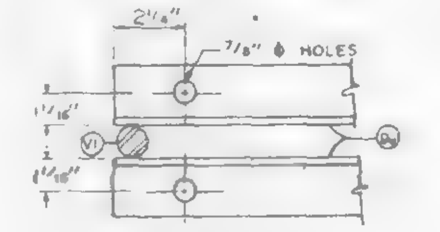
ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE
RESISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM, ie., [R9].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 292 & ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T16CL TRUSSES ARE APPLICABLE TO C32T16CR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

REF. DRWG.	
7-AB1-15	10-4-68
7-AB1-54	11-25-68
7-AB1-53	7-28-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4 17 & 17.2	10-4-68
SA-124	10-11-68
7-AB1-55	10-15-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD S	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO. OF K	FILLER NO.	DIA.	"M" C/C HOLES	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS NO	DIA	LENGTH	CHANNEL PLATES MK	TYPE STEEL	PCS	SIZE	LENGTH	REINFORCING ANGLES MK.	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	SPECIAL PLATES MK	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C32T16CL-598	6	A242	[illegible] x .31	59'-8"	7	A36	3" x 2" x .33"	47'-8"	3 / 3A / 3B	A36 / A242 / A242	1.09 / 1.14 / 1.14	[illegible] / 12'-6 [illegible] / 10'-7.5 [illegible]	11 K @ 3'-4" = 36'-8" / 2 K @ 3'-4" = 6'-8" / 1 3/4 K @ 3'-4" = 5'-9"	11	1.09"	59'-2 3/4"	CP16	A36	3" x 25	41'-2"	4	1.09	3"	P8	A36	3	4 1/2" x 39	5 1/2"	RA-2	A36	3" x 2" x .33"	7 1/2"	P12	A36	[illegible]	7 1/2

Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T16CL-598	9 / 9A	A242 / A242	[illegible]	2 / 1	9-5" / 8 1/2"	5'-4 1/4"	DS	A242	1.14	2'-8 3/4"	—	—	—	—	A242	1.14	10 1/2"	A242	1.14	8 3/8"	—	—	—	CH1L / CH1R	A36 / A36	10 C 30 / 10 C 30	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	F
9'-6 1/2"	22'-10 1/2"	35'-2 1/2"	49'-6 1/2"	7"

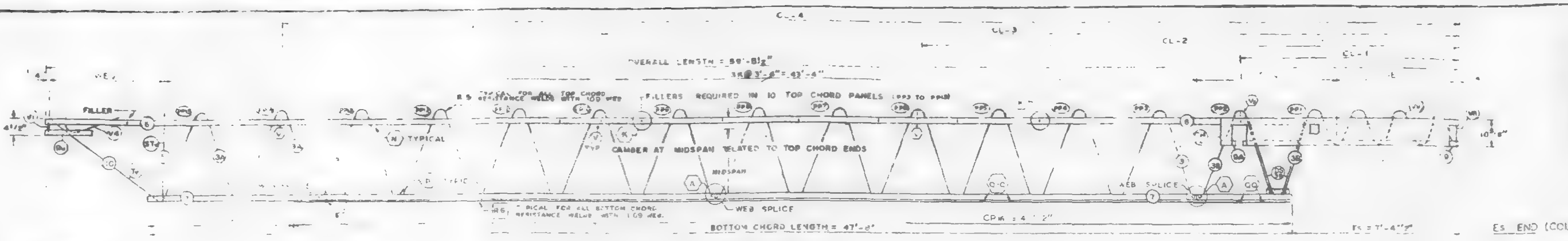
EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE$_V$	DIAGONAL "T$_V$" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
	C32T16CL-598	9V	A242	2 x 1 1/2" x .25	1'-6"	5'-0 1/4"	10	A242	1.14	9'-5 1/2"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 5/8"	—	—	—	A242	1.14	2'-2 1/2"	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

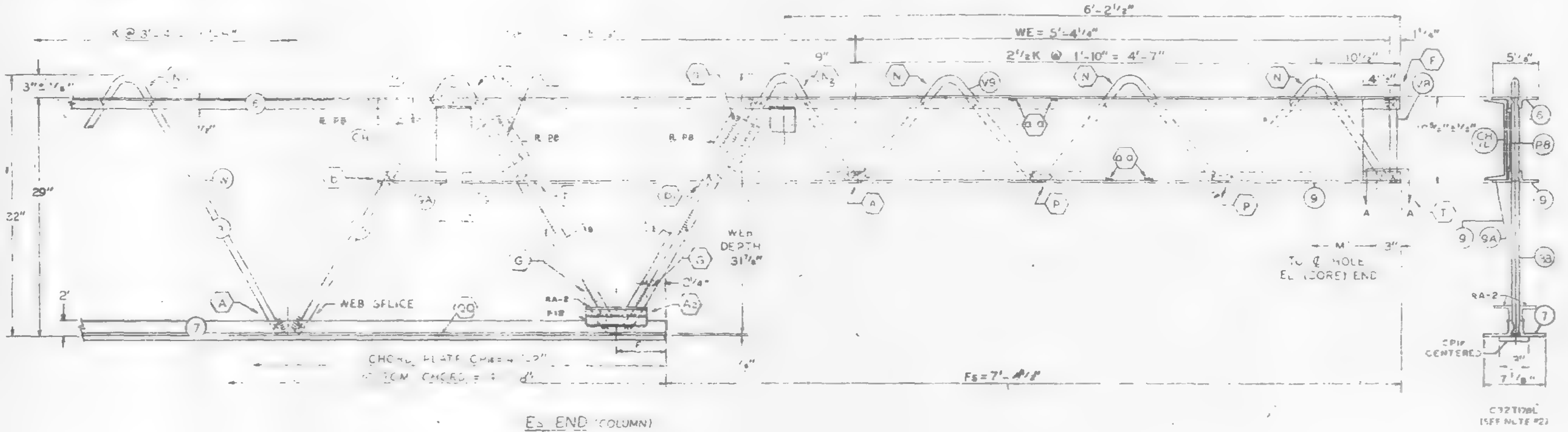
FLOOR TRUSS C32T16CL (SEE NOTE 2) x 59'-8" LONG
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

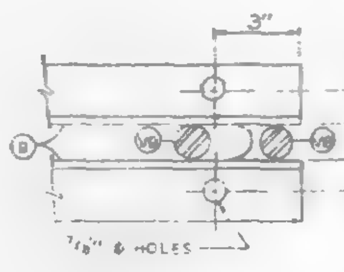
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-15	PLATE
APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. DATE 4/7/69	DRAWN BY: G.S.C. DATE MAR. 28, 1969	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE	CHECKED BY: T.M. OKURA DATE MAR 28 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 216



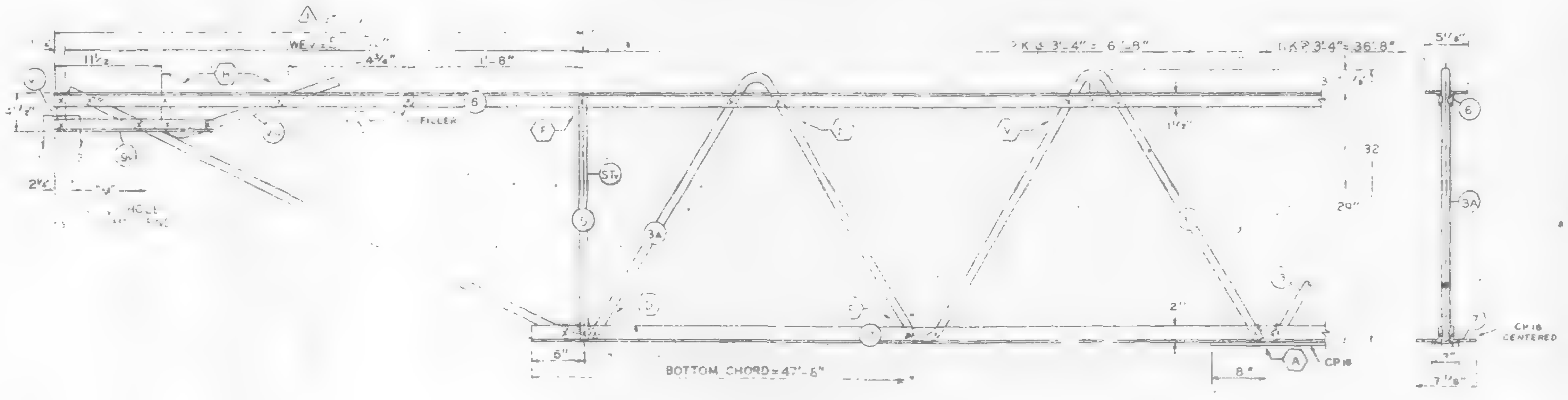
TRUSS ELEVATION



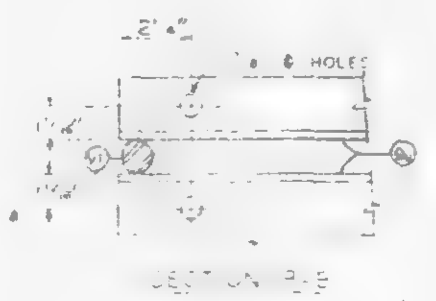
ES END (COLUMN)



SECTION A-A



EL END



FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/8"
OVERALL LENGTH	59' 8½"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED. (*).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R9].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T17BL TRUSSES ARE APPLICABLE TO C32T17BR TRUSSES WITH CHANNEL CH18 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO	DATE	REVISION	BY
1	5-6-69	AS NOTED	D.C.C

REF. DRWG.

7-AB1-18	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-[illegible]	10-4-68
SA-124	1-6-69
7-AB1-55	10-18-68
7-AB4-17.2	12-20-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	[illegible]	[illegible]	BOTTOM CHORD TWO ANGLES			MAIN WEB					FILLER		"M" C/C HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES				SPECIAL PLATES		
			TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T17BL 598.5	[illegible]	59' 8½"	A36	3"x2"x.33"	47'-6"	3A / 3 / 15	A36 / A242 / A242	[illegible]	[illegible]	[illegible]	1	1.09	9'-3¼"	CP16	A36	3½x.25	4'-2"	4	1.09	3"	CC	A36	3	4½"x.38	5'-2"	RA2	A36	3½x2x.33"	7'-7"	P12	A36	1"x⅜"	7'-2"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQD)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	[illegible]BL 598.5	9A	A242	[illegible]	[illegible]	5' 4¼"	[illegible]	A242	114	2' 6¾"	—	—	—	—	A242	114	10½"	A242	114	8-3⅞"	—	—	—	CH / CH	A36 / A36	10 .30 / 10 .30	[illegible]

CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	FS
9'-6"	22'-10½"	36'-2½"	49'-6½"	[illegible]

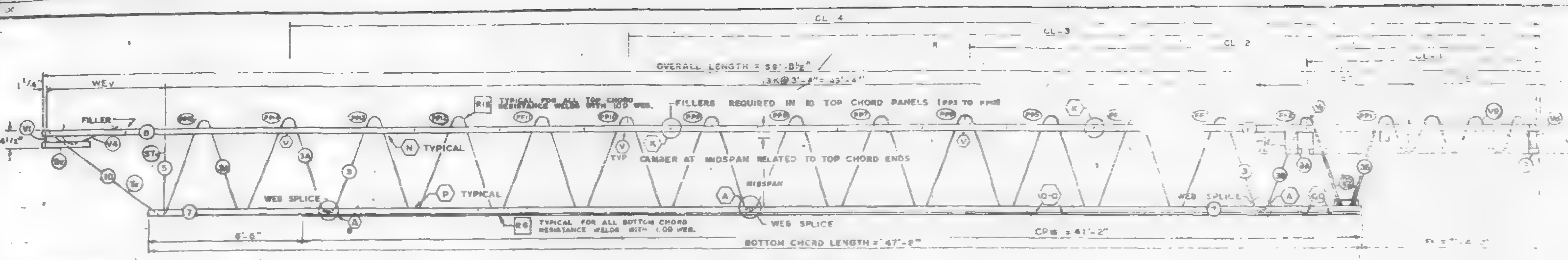
CORE END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL ST. STRUT				VERTICAL ST. STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	C32T17BL 598.5	[illegible]	A242	3"x2"x[illegible]	[illegible] 6"	△	[illegible]	A242	114	5' 6⅛"	5	A242	114	2'-4[illegible]"	A242	114	4' 8"	—	—	—	A242	114	2'-2½"	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

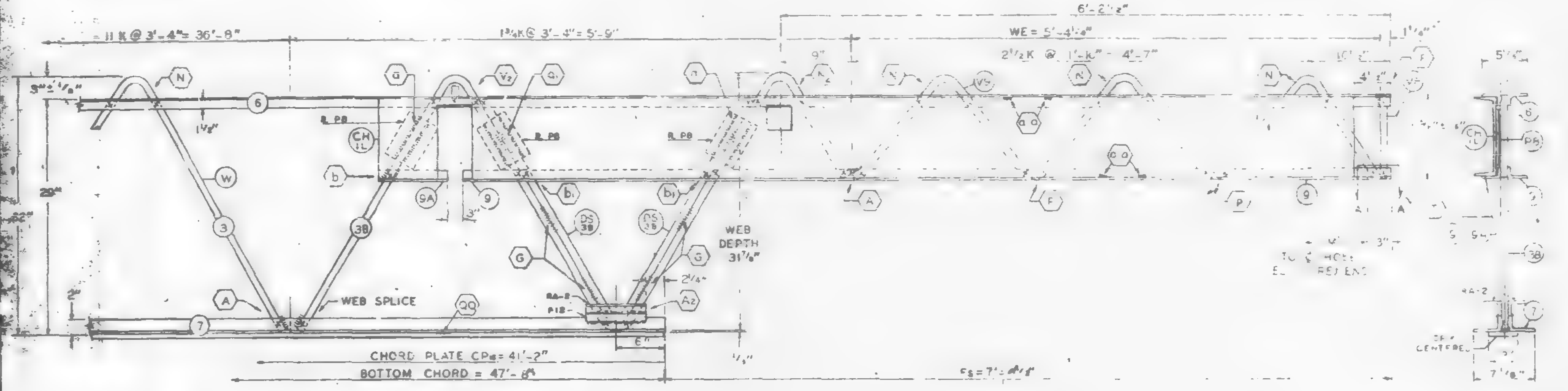
FLOOR TRUSS C32T17BL (SEE NOTE 2) x 59'-8½"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR PONYA James White DATE 4/4/69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY: R. CARL WEBER

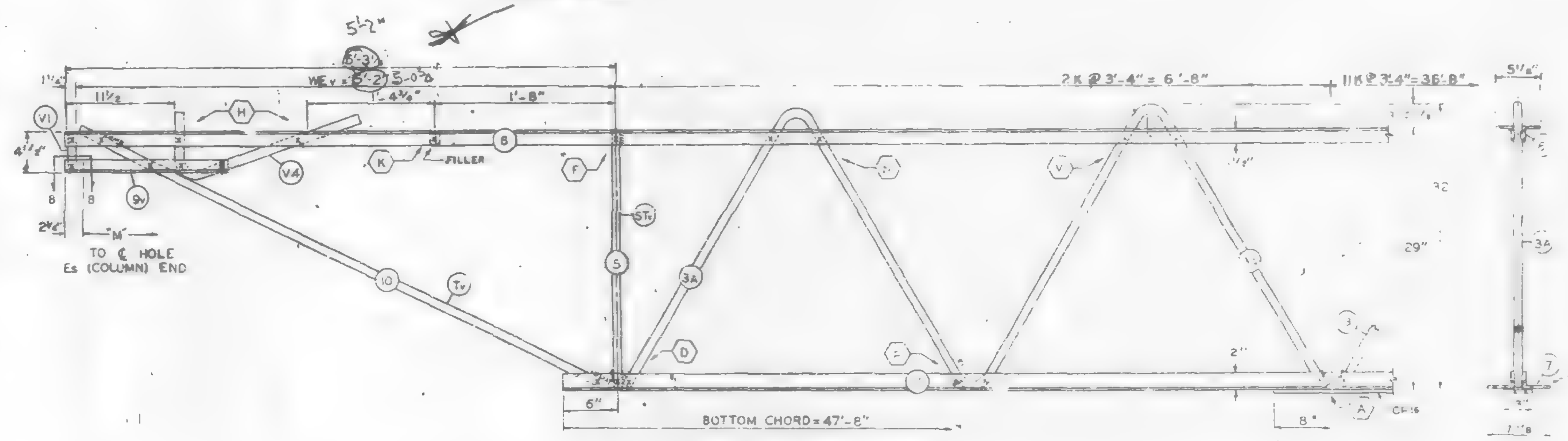
DESIGN DRAWING NO 7-AB1-18
DRAWN BY: gdc
DATE APRIL 11, 1969
CHECKED BY: T.M.CH[redacted]
DATE APRIL 11, 1969
FABRICATION CONT. NO. WTC 221



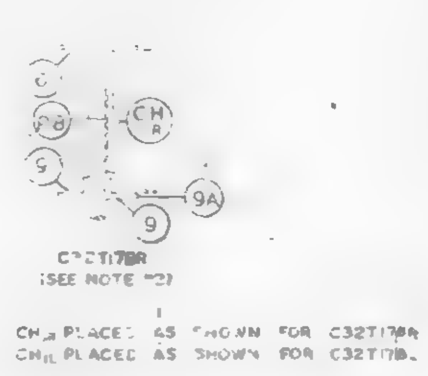
TRUSS ELEVATION

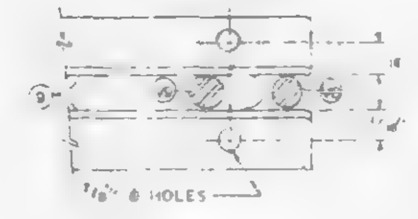


Es END (COLUMN)

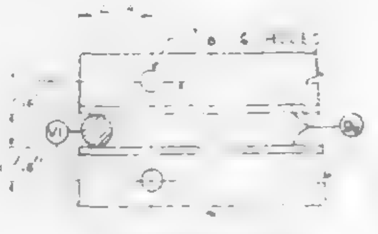


EL END (CORE)





SECTION A-A



SECTION B-B

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL P	[illegible]	± 1/4"
OVERALL LENGTH	59' 8½"	± 3/8"
WEB DEPTH	[illegible] 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED. (*).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R9].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T178L TRUSSES ARE APPLICABLE TO C32T178R TRUSSES WITH CHANNEL CH1 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO	DATE	REVISION	BY

SKILLING - HELLE CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
☐ APPROVED
☒ APPROVED AS NOTED
☐ RESUBMIT
☐ REJECTED
Date 4/25/69 by SK

REF. DRWG.	
7-AB1-16	10-4-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17	10-4-68
SA-124	1-6-69
7-AB1-55	10-18-68
7-AB4-17.2	12-20-68

PAINT
LACLEDE ELECTROCOAT
REF. NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO.	DIA.	"M" C/C HOLE
C32T178L 598.5	6	A242	2"x1½"x.31	59'-8½"	7	A36	3"x2"x.33"	47'-8"	3	A36	1.09	59'-8 1/4"	11 K @ 3'-4" = 36'-8"	11	1.09	59'-[illegible]
									3A	A242	1.14	12'-5 1/2"	2 K @ 3'-4" = 6'-8"			
									3B	A242	1.14	10'-7 5/8"	1 3/4 K @ 3'-4" = 5'-9"			

TRUSS DESIGNATION	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS NO	DIA	LENGTH	CHANNEL PLATES MK	TYPE STEEL	[illegible]	SIZE	LENGTH	REINFORCING ANGLES MK	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	SPECIAL PLATES MK	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C32T178L 598.5	CP18	A36	3"x.25	41'-2"	4	1.09	3'	FO	A36	-	4"x2"x.39	[illegible]	RA2	A36	3"x2"x.33"	7'-½"	P12	A36	1"x¾"	7 [illegible]

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA	LENGTH	MK. V9 TYPE STEEL	DIA	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T178L-598.5	9	A242	[illegible]	2	[illegible]	5'-4¼"	DS	A242	1.14	2'-6¾"	-	-	-	-	A242	1.14	10½"	A242	1.14	8'-3⅞"	—	—	—	CH1	A36	10 30	10'-0"
	9A	A242	[illegible]	1	[illegible]																			CH1	A36	10C 30	10'-0"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
C32T178L-598.5	9v	A242	2"x1½"x.25	1'-6"	5'-2"	10	A242	1.14	5'-6⅛"	5	A242	1.14	2'-4[illegible]"	A242	1.14	4⅜"	—	—	—	A242	1.14	2'-8½"	-	—	—	—	-		—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Es
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

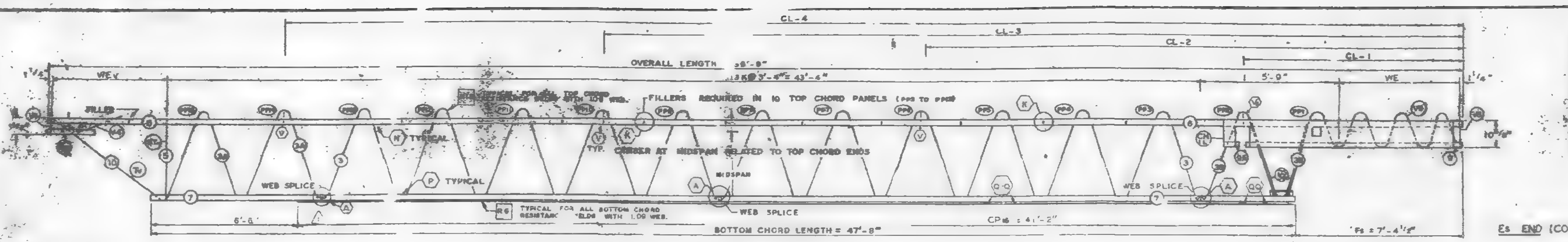
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T178L (SEE NOTE 2) x 59'-8½"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-16	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE	DRAWN BY gdc DATE APRIL 11, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE APRIL 11, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: LACLEDE STEEL CO.	FABRICATION CONT. NO. WTC 221	SHEET NO. ST 217BL

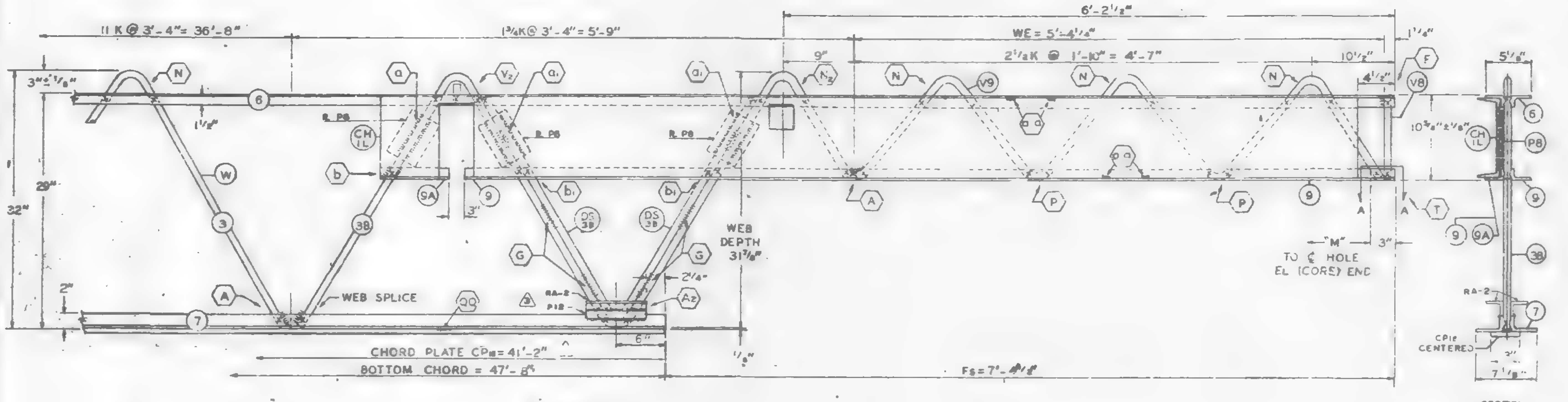
FABRICATION REQUIREMENTS	
CAMBER AT MIDSPAN	[illegible]
DESIGN DEPTH	[illegible]
PANEL K	[illegible]
OVERALL LENGTH	[illegible]
WEB DEPTH	[illegible]



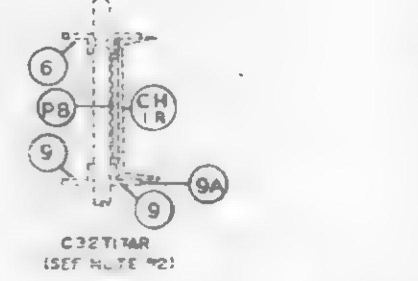
EL END (CORE)

Es END (COLUMN)

TRUSS ELEVATION



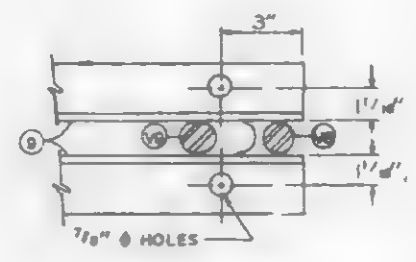
Es END (COLUMN)



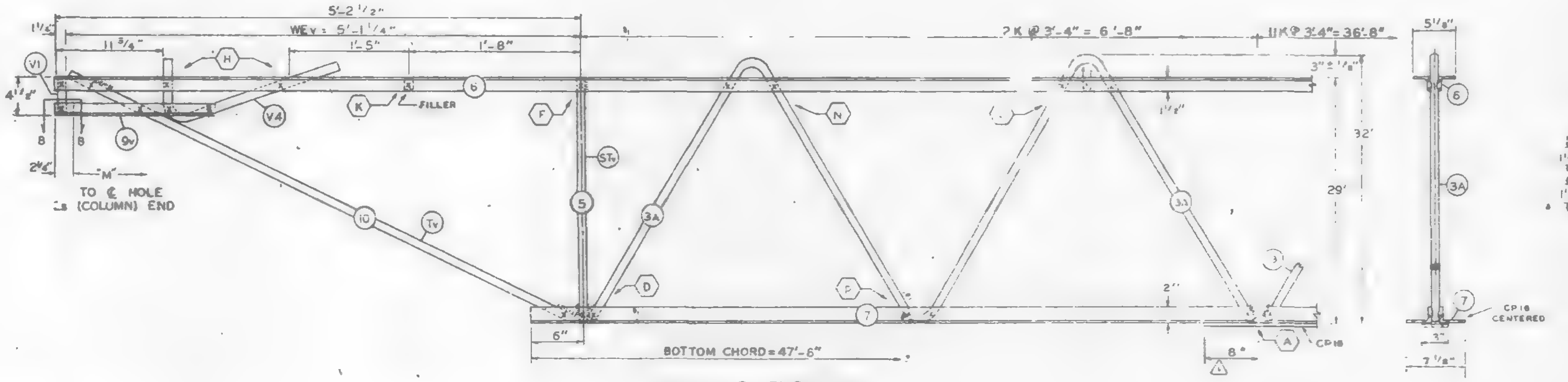
ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [80].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293. (3)
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.

NOTE 2

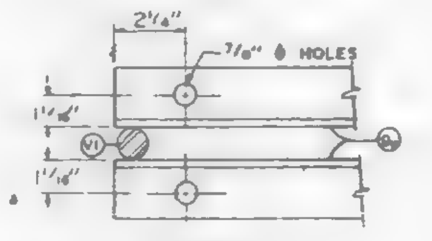
ALL DETAILS & ELEVATIONS SHOWN FOR C32T17AL TRUSSES ARE APPLICABLE TO C32T17AR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



EL END (CORE)



SECTION B-B

NO	DATE	REVISION	BY
3	12-10-68	AS NOTED	G.D.C.
2	11-7-68	AS NOTED	G.D.C.
1	10-31-68	CP16	LWM

(3) REF. DRWG.

7-AB1-16	10-4-68
7-AB1-54	11-25-68
7-AB1-53	7-22-68
7-AB2-2	1-8-68
7-AB3-2A	8-15-68
7-AB4-17 & 17.2	10-4-68
SA-124	10-11-68
7-AB1-55	10-18-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE (1)				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (3)				SPECIAL PLATES			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	MK.	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C32T17AL-599	6	A242	2"x1 1/2"x .31	59'-9"	7	A36	3"x2"x.33"	47'-8"	3	A36	.109	[illegible]	11 K @ 3'-4" = 36'-8"	11	.109"	59'-3 3/4"	CP16	A36	3"x.25	4'-2"	4	.109	3"	P8	A36	3	4 1/2"x.39	5'-2"	RA2	A36	3"x2"x.35"	7 1/2"	P12	A36	1"x3/8"	7 1/2"
									3A	A242	.114	[illegible]	2 K @ 3'-4" = 6'-8"																							
									3B	A242	.114	[illegible]	1 3/4 K @ 3'-4" = 5'-9"																							

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T17AL-599	9	A242	2"x1 1/2"x.25"	2	9'-5"	5'-4 1/4"	DS	A242	.114	2'-6 3/4"	-	—	- -	- -	A242	.114	10 1/2"	A242	.114	8'-3 7/8"	—	—	—	CH1L	A36	C10 30	10'-0"
		9A	A242	2"x1 1/2"x.25"	1	8 1/2"																			CH1R	A36	C10 30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEV	DIAGONAL "TV" STRUT				VERTICAL "STV" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T17AL-599	9V	A242	2"x1 1/2"x.25	1'-7"	5'-1 1/4"	10	A242	.114	5'-6 1/2"	5	A242	.114	2'-4 7/8"	A242	.114	4 3/8"	—	—	—	A242	.114	2'-2 1/2"	-	—	—	—	—	—	—	—

(2)

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

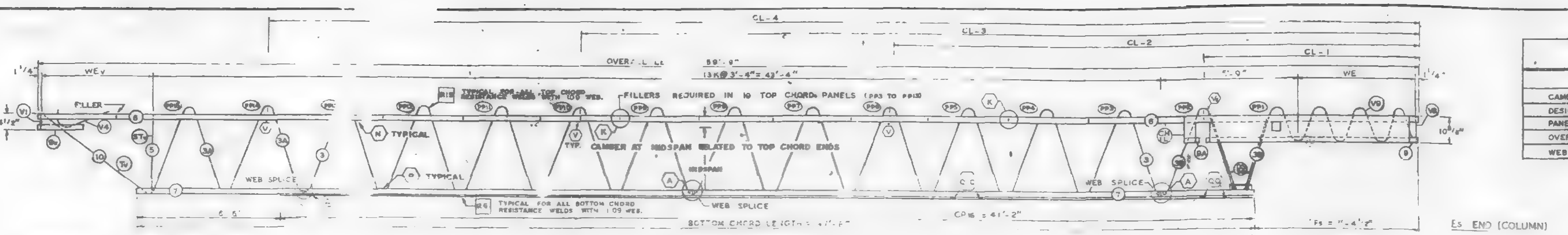
FLOOR TRUSS C32T17AL (SEE NOTE 2) x 59'-9"

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-16	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White	DATE 12/16/68	DRAWN BY: gdc DATE OCT. 8, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: E.M. CHURA DATE OCT. 9, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET ST 21

1



EL END (CORE) — TRUSS ELEVATION — Es END (COLUMN)

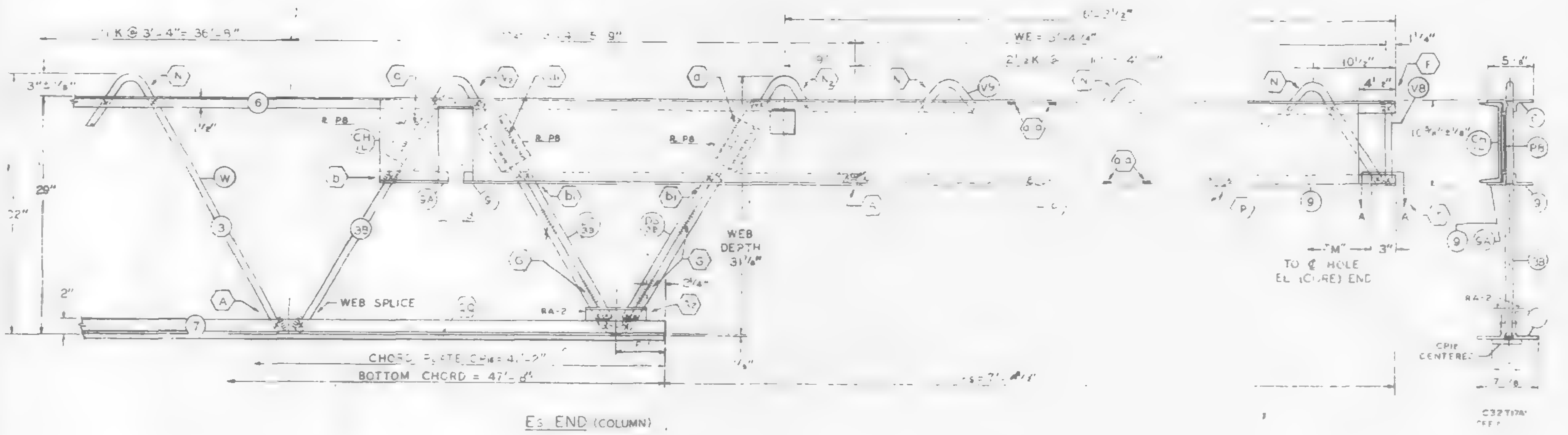
FABRICATION REQUIREMEN	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	[illegible] /8"
WEB DEPTH	31 [illegible] 8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED (4).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (4).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [RD].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST29[illegible].

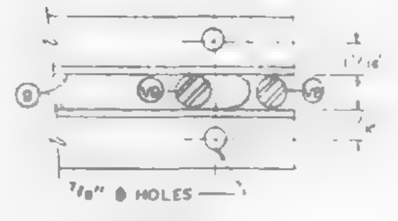
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T17AL TRUSSES ARE APPLICABLE TO C32T17AR TRUSSES WITH CHANNEL CH1 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

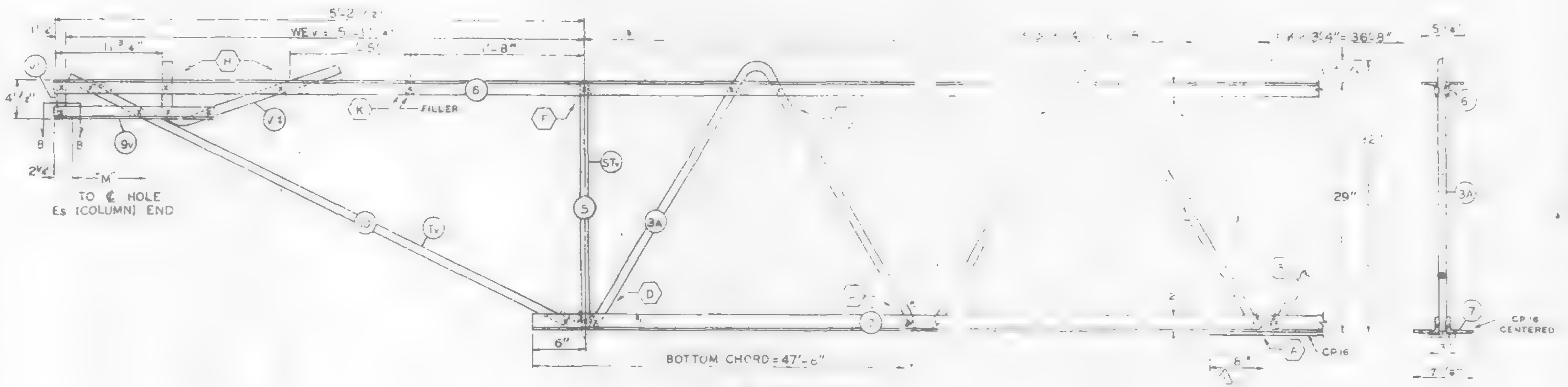


Es END (COLUMN)

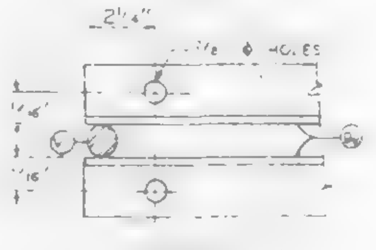


SECTION A-A

NO	DATE	REVISION	BY
2	11-7-68	AS NOTED	[illegible]
1	10-31-68	CP16	[illegible]



EL END (CORE)



SECTION B-B

2. REF. DRWG.

7-AB1-18	10-4-68
7-AB1-54	10-4-68
7-AB1-53	7-22-68
7-AB3-2	[illegible]-3-68
7-AB3-24	8-5-68
AB4 17 & 172	10-4-68
SA 24	8-11-68
7-AB1-55	10-18-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER "M" W/ HOLES NO	DIA	[illegible]	CHANNEL PLATES MK	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES (2 REQ'D) MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T17AL-599	6	A242	2"x1½"x 31	59'-9"	7	A36	3"x 2"x 33"	47'-8"	3 3A 3B	A36 A242 A242	1.09 1.14 1.14	68'-8 1/4" 12'-5 1/2" 10'-7 5/8"	11 K@3'-4" = 36'-8" 2 K@3'-4" = 6'-8" 3 4K@3'-4" = 5'-9"	[illegible]	.C9	[illegible]	P6	A36	3	4"x2"x39	5'-2"	RA-2	A36	[illegible] 2"x.33	7 1/2"	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK [illegible] TYPE STEEL	DIA	LENGTH	CHANNEL MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T17AL 599	9 9A	A242 A242	2"x[illegible]x25" 2"x[illegible]x25"	2	3'-5" [illegible]	5'-4 [illegible]	[illegible]	A242	1.14	2'-6 3/4"	—	—	-	-	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH1 CH[illegible]	A36 A36	1C 3C 1C 3C	10'-0" 10'-0"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL STv STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL STv STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V TYPE STEEL	DIA.	LENGTH	MK. V2 STEEL	[illegible]	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
	C32T17AL 599	9v	A242	2"x1 2"x 25	1'-7"	5'-1 1/4"	10	A242	1.14	5'-6 1/2"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	-	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

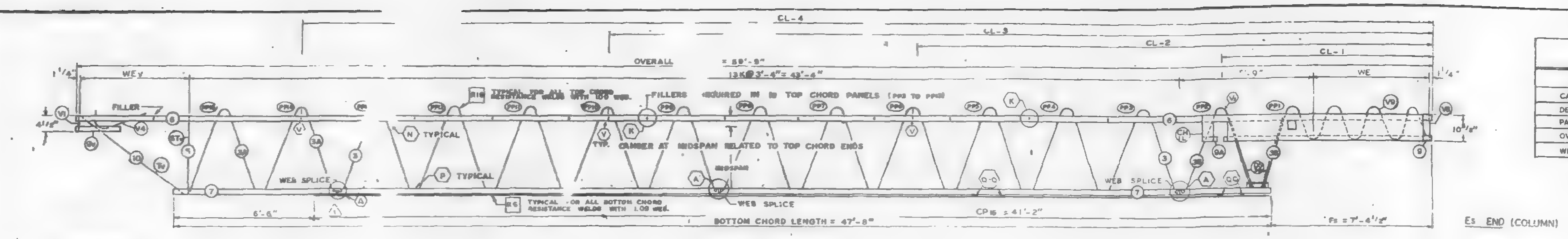
FLOOR TRUSS C32T17AL (SEE NOTE 2) x 59'-9"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-16
PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 11/18/68
DRAWN BY gdc DATE OCT. 8, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M. CHURA DATE OCT 9 1968
IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO ST 217AL

1100-1199

WTC1-131-LERA

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	59'-9"	- 3/8"
WEB DEPTH	31 7/8"	± 1/4"



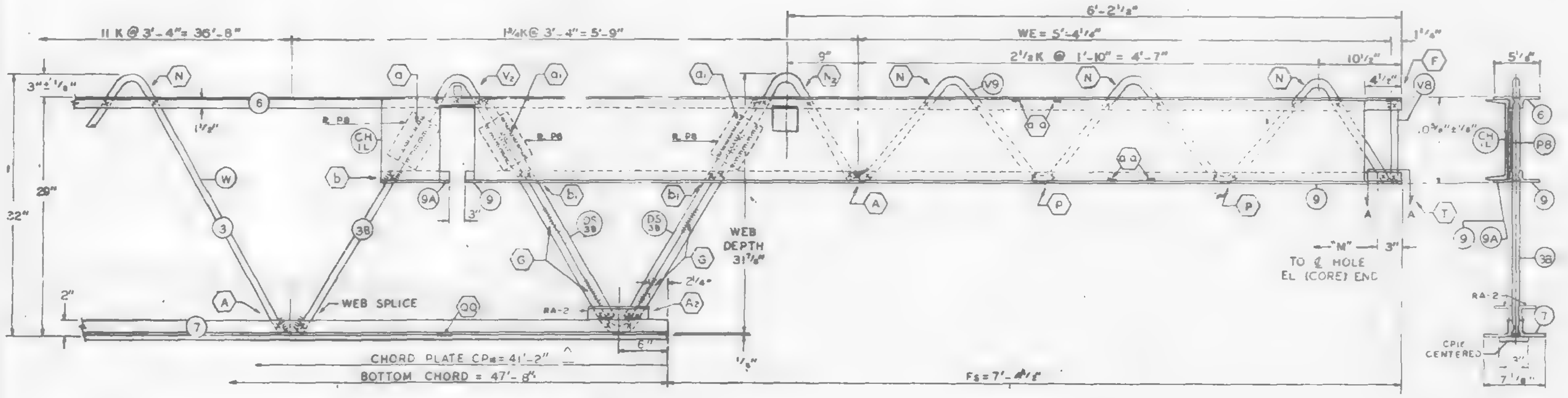
TRUSS ELEVATION

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R6].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291.

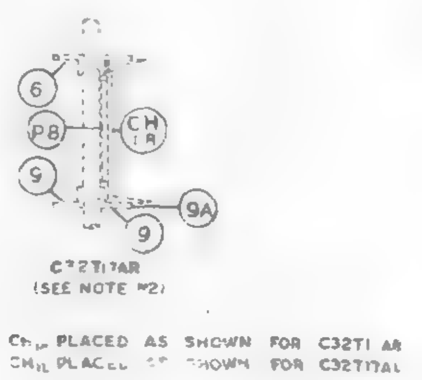
ALL CHANNEL DETAILS SHOWN ON SHEET ST 401.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

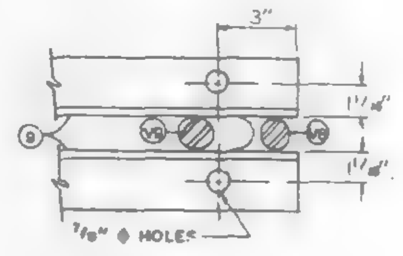
NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T17AL TRUSSES ARE APPLICABLE TO C32T17AR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



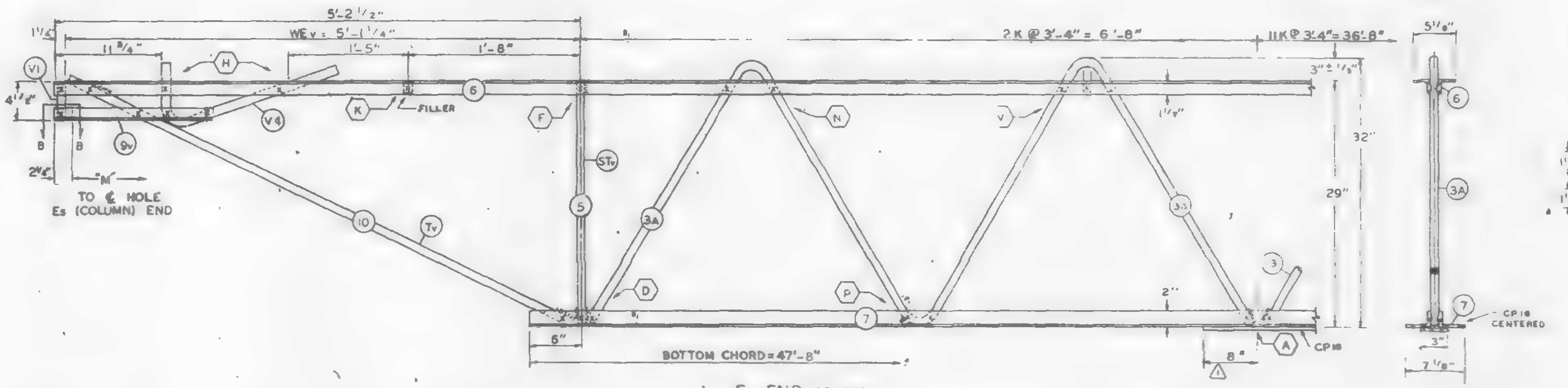
ES END (COLUMN)



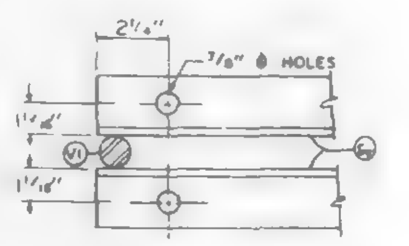


SECTION A-A

NO	DATE	REVISION	BY
1	10-31-68	CP16	MH



EL END (CORE)



SECTION B-B

REF. DRWG.

7-AB1-18	8-15-68
7-AB1-34	8-15-68
7-AB1-53 & 56	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	8-15-68
SA-124	8-1-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE ⚠				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	
C32T17AL-599	6	A242	2"x1 1/2 x .31	59'-9"	7	A36	3" x 2" x .33"	47'-8"	3 3A 3B	A36 A242 A242	.109 .114 .114	[illegible] [illegible] 10'-7 3/8"	[illegible] [illegible] [illegible]	11	.109	59'-3 3/4"	CP16	A36	3"x .25	41'-2"	4	.109	3"	P8	A36	3	4 1/2"x.39	5'-2"	RA-2	A36	3"x 2"x.33"	7 1/2"	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T17AL-599	9 9A	A242 A242	[illegible] [illegible]	2 1	[illegible] [illegible]	5'-4 1/4"	DS	A242	.114	2'-6 3/4"	—	—	—	—	A242	.114	10 1/2"	A242	.114	8'-3 7/8"	—	—	—	CH1L CH1R	A36 A36	10 .30 10 .30	10'-0" 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

CORE END

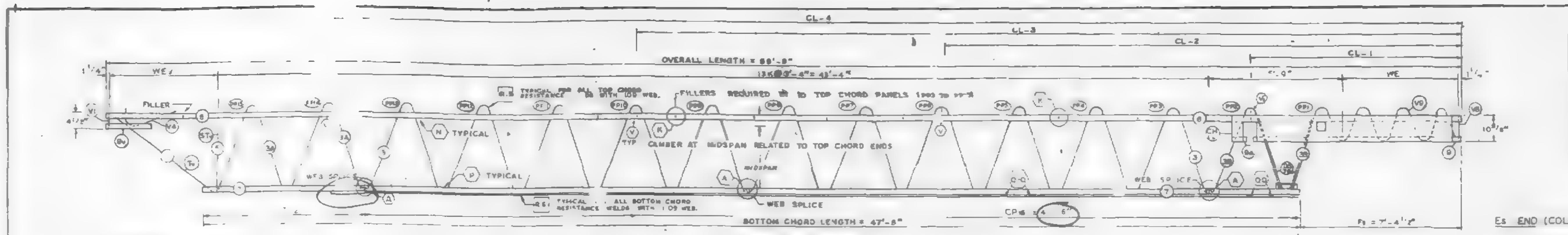
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T17AL-599	9v	A242	2"x1 1/2"x .25	1'-7"	5'-1 1/4"	10	A242	.114	5'-6 1/2"	5	A242	.114	2'-4 3/4"	A242	.114	4 3/8"	—	—	—	A242	.114	2'-2 1/2"	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T17AL (SEE NOTE 2) x 59'-9"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-16	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.	DATE 11/7/68	DRAWN BY gdc DATE OCT. 8, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE OCT. 9 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO ST 217AL

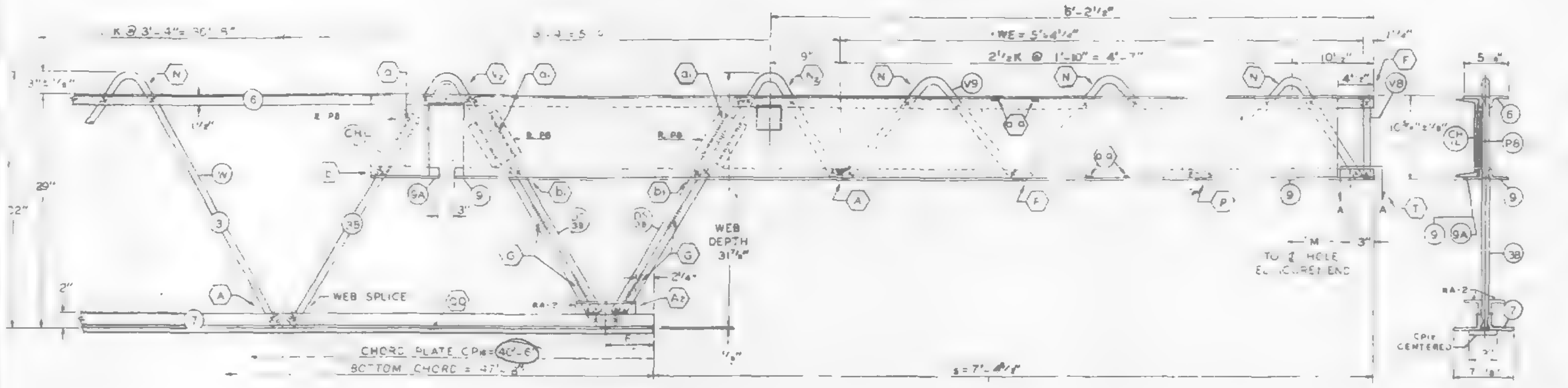


El END (CORE)

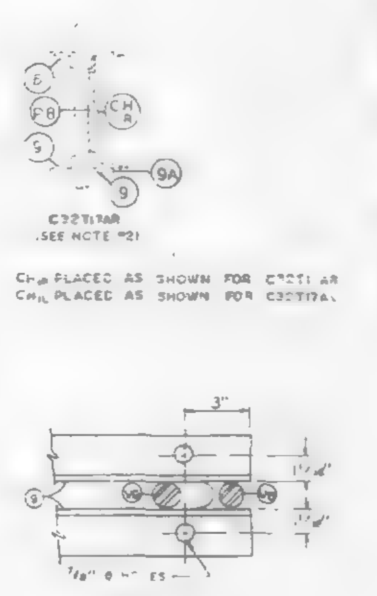
TRUSS ELEVATION

Es END (COLUMN)

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29	± [illegible]
PANEL K	3' 4"	± [illegible]
OVERALL LENGTH	59'-9"	± [illegible]
WEB DEPTH	[illegible]	± [illegible]



Es END (COLUMN)



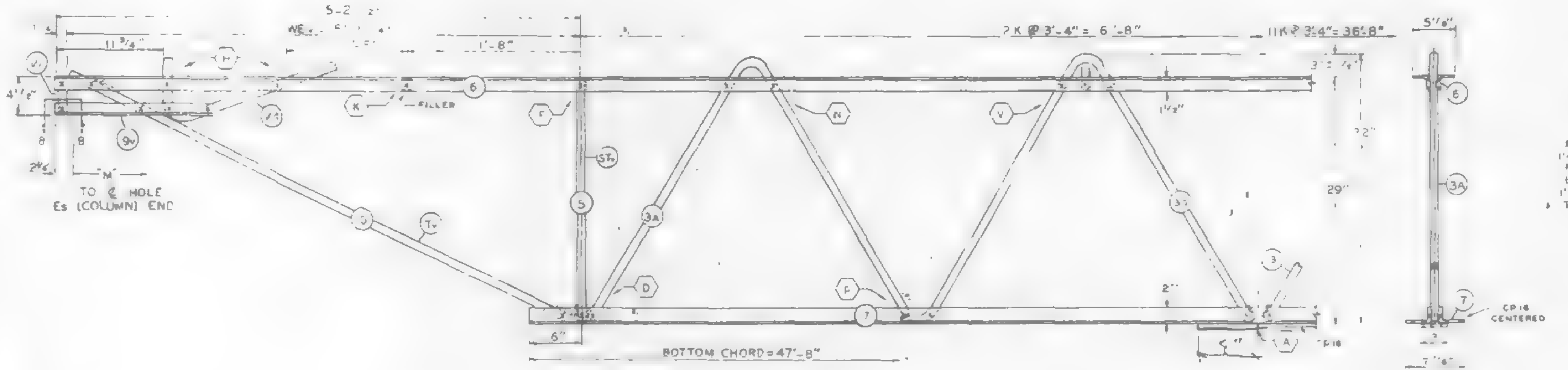
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (A) ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES [illegible] LETTERS IN HEXAGON INDICATE WELD DETAIL [illegible] LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM [illegible] ALL WELD DETAILS SHOWN [illegible]

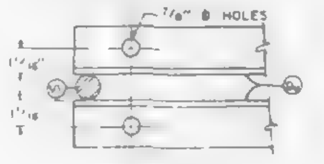
ALL CHANNEL DETAILS SHOWN [illegible] CHORD PLATE DETAILS SHOWN [illegible] SHEET [illegible]

NOTE 2

A[illegible] DETAILS & ELEVATIONS SHOWN FOR C32T1TAL TRUSS [illegible] ARE APPLICABLE TO [illegible] TRUSSES WITH CHANNEL CHR AND BEARING ANGLE 9A [illegible] HAND [illegible]



El END (CORE)



SECTION B-B

NO	DATE	REVISION	BY

REF DRWG
7-AB1-24
7-AB4-17 & 172
SA 24

10/29/68 SK

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER		"M" ℄ HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES 2 REQ'D				TRUSS DATA
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO.	DIA		MK	TYPE STEEL	SIZE	LENGTH	NO.	DIA	LENGTH	MK	TYPE STEEL	PCS	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	
C32T1TAL-599	6	A242	2"x1½"x .31	59'-9"	7	A36	3"x2"x .33"	47'-8"	[illegible]	A242	[illegible]	[illegible]	1	1.09	59'-3¾"	CP16	A36	3"x .25	40'-6"	4	1.09	3	PB	A36	3	4"x .39	5'-2"	RA2	A36	[illegible]	7½"	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T1TAL-599	9 / 9A	A242 / A242	[illegible]	[illegible]	[illegible]	5'-4⅛"	[illegible]	A242	.4	2'-6¼"	—	—	—	—	A242	1.14	10'-½"	A242	1.14	8'-3⅞"	—	—	—	CHL / CHR	A36 / A36	10 .30 / 10 .30	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

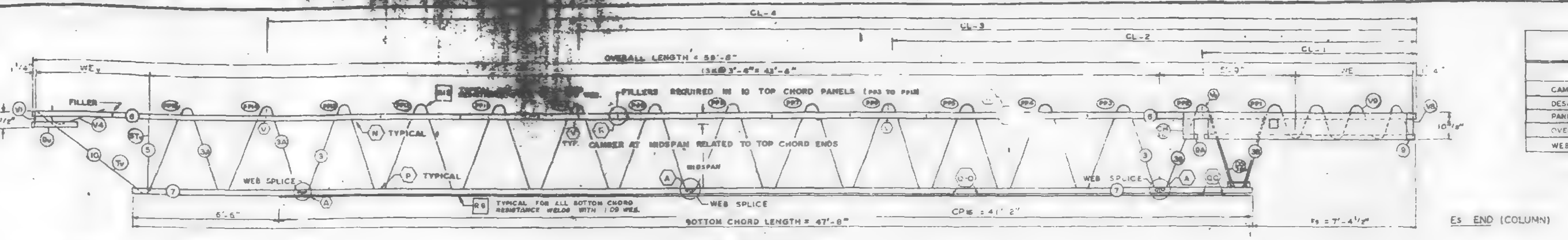
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T1TAL-599	9L	A242	3"x1½"x .25	1'-7"	5'-1¼"	10	A242	1.14	5'-6½"	5	A242	1.14	2'-4¾"	A242	1.14	4'-3⅛"	—	—	—	A242	1.14	2'-2½"	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T1TAL (SEE NOTE 2) x 59'-9"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-6
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE
DRAWN BY glc DATE OCT 8 1968
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE
CHECKED BY [illegible] DATE OCT 9 1968
FABRICATION CONT. NO. WTC 221
SHEET NO. ST 21 TAL
DETAILED BY: A. CARL WEBER



TRUSS ELEVATION

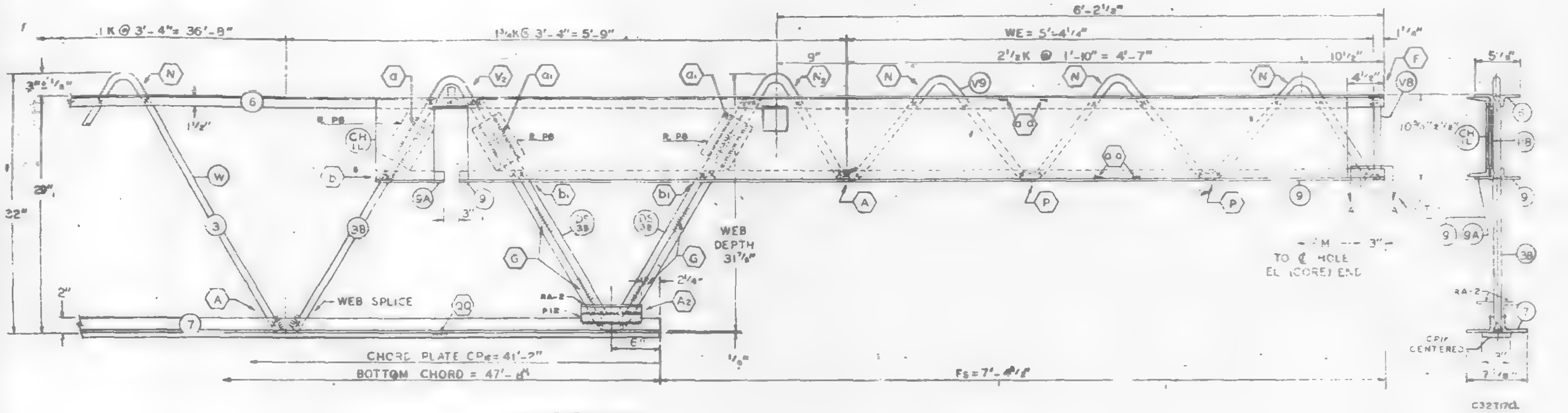
FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	59-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

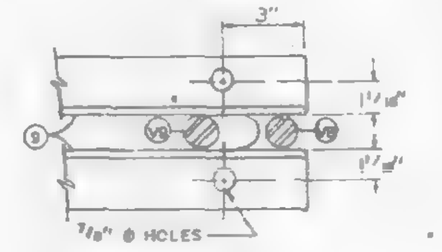
ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R9].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.

NOTE 2

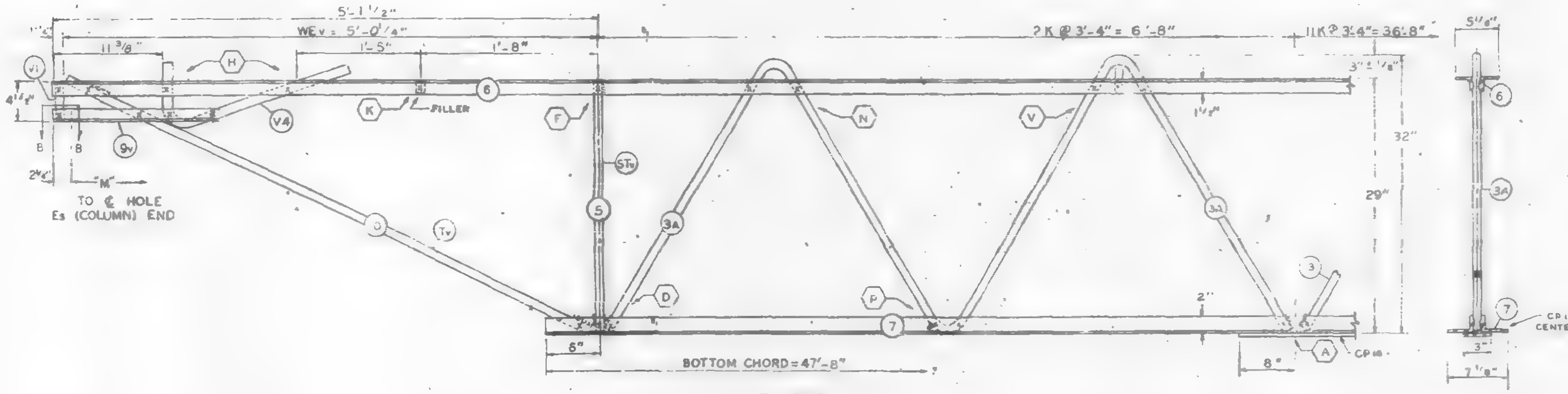
ALL DETAILS & ELEVATIONS SHOWN FOR C32T17CL TRUSSES ARE APPLICABLE TO C32T17CR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



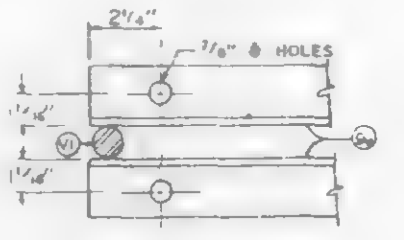
Es END (COLUMN)



SECTION A-A



EL END (CORE)



SECTION B-B

NO	DATE	REVISION	BY

REF. DRWG.

7-AB1-18	10-4-68
7-AB1-54	11-25-68
7-AB1-53	7-22-68
7-AB2-8	1-8-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	10-4-68
9A-124	10-11-68
7-AB1-95	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T17CL (SEE NOTE 2) x 59'-8"
WORLD TRADE CENTER TOWERS A & B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.	
C32T17CL-598	6	A242	2"x1 1/2"x.31	59'-8"	7	A36	3"x2"x.33"	47'-8"	3	A36	1.09	[illegible]	11 K@3'-4" = 36'-8"	11	1.09	59'-2 3/4"
									3A	A242	1.14	[illegible]	2 K@3'-4" = 6'-8"			
									3B	A242	1.14	10'-7 5/8"	1 3/4K@3'-4" = 5'-9"			

TRUSS DESIGNATION	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES				SPECIAL PLATES			
	MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	MK.	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C32T17CL-598	P16	A36	3"x.25	41'-2"	4	1.09	3"	P8	A36	3	4 1/2"x.39	5'-2"	RA2	A36	3"x2"x.33"	7'-2"	P12	A36	1"x3/8"	7'-2"

Es	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH
[…]LUMN END	C32T17CL-598	8	A242	[illegible]	2	9'-5"	5'-4 1/4"	DS	A242	1.14	2'-6 3/4"	—	—	—	—
		9A	A242	[illegible]	1	[illegible]									

Es	TRUSS DESIGNATION	END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL			
		TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
[…]LUMN END	C32T17CL-598	A242	[illegible]	10 1/4"	A242	1.14	9'-3 7/8"	—	—	—	CHIL	A36	10:30	10'-0"
											CHIR	A36	[illegible]	10'-0"

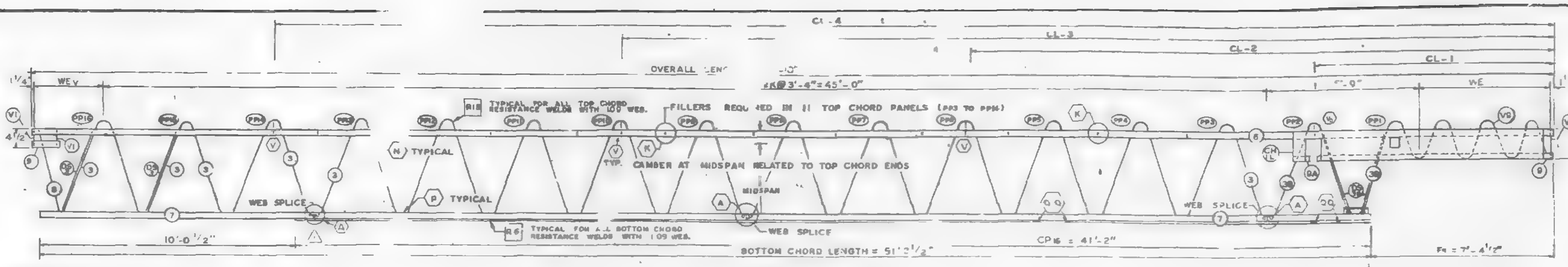
CL-1	CL-2	CL-3	CL-4	
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	4 1/2"

CHECK DIMENSION FOR TRUSS FAB. — LOCATION OF TRANS. TRUSS

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T17CL-598	9v	A242	2"x1 1/2"x.25	1'-6"	5'-0 1/4"	10	A242	1.14	5'-5 1/8"	5	A242	1.14	2'-4 7/8"

EL END	TRUSS DESIGNATION	END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T17CL-598	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	-	—	—	—		—	—	—

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-18	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White	DATE [illegible]	DRAWN BY [illegible] DATE [illegible] 1969	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY: T.M.CHUNG DATE MAR. 8, 1969	IN CHARGE PROD. NO.
DETAILED BY: A. [illegible]		FABRICATION CONT. NO. W.T.C. 221	SHEET ST 217



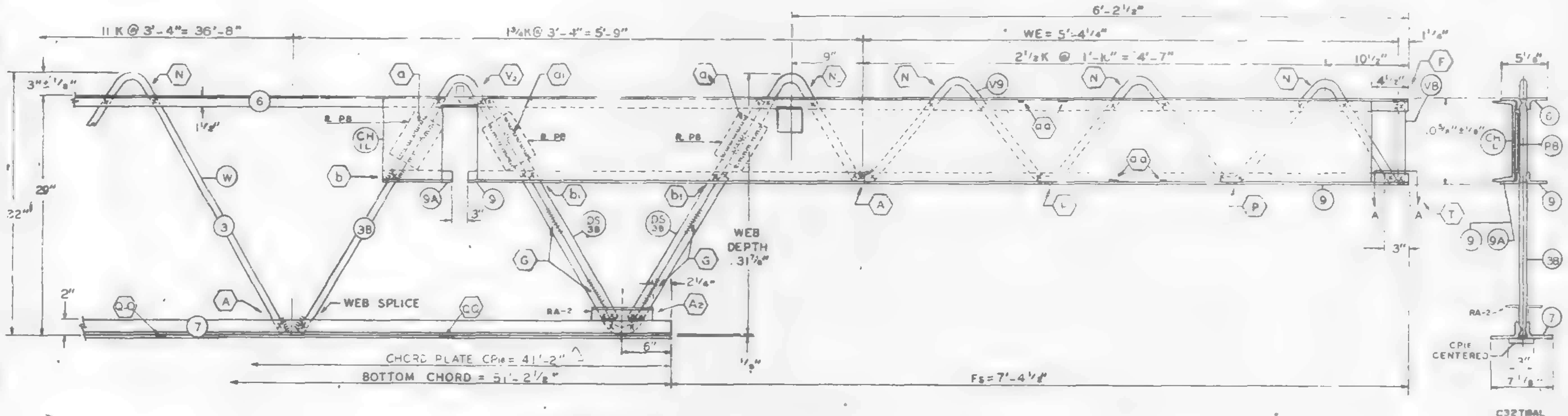
E_L END (CORE)

TRUSS ELEVATION

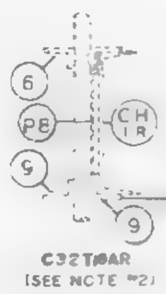
Es END (COLUMN)

FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3 "
WEB DEPTH	31 7/8"	± 1/4"



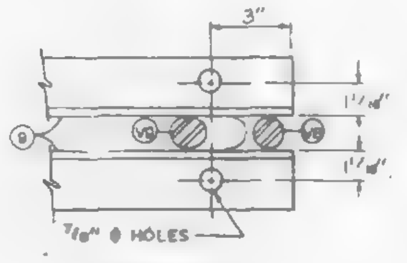
Es END (COLUMN)



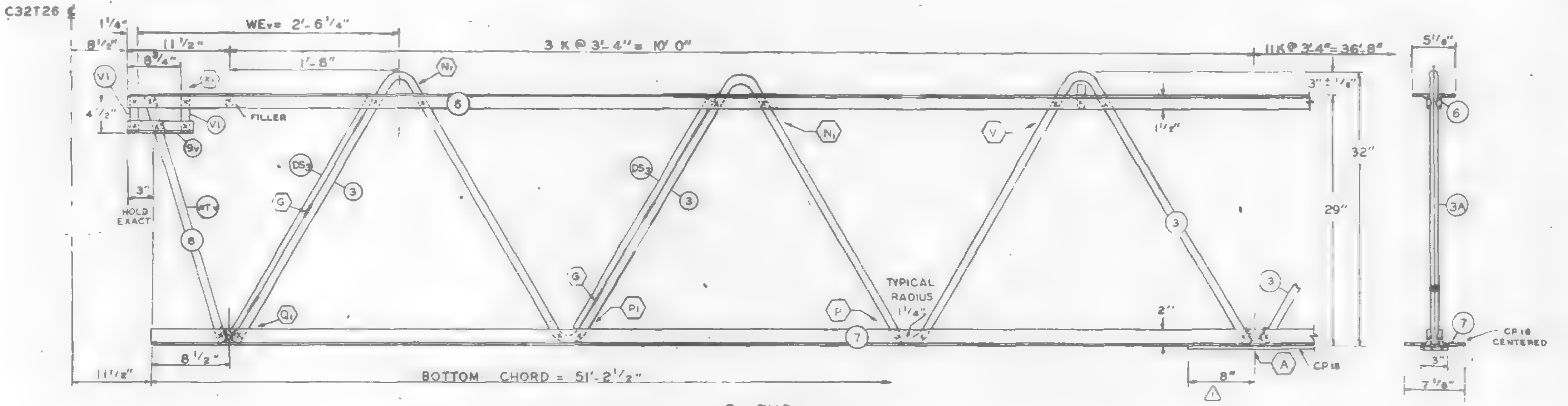
ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R9].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T18AL TRUSSES ARE APPLICABLE TO C32T18AR TRUSSES WITH CHANNEL CH_R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



E_L END (CORE)

NO	DATE	REVISION	BY
1	0-31-68	CP16	L.W.H

REF. DRWG.

7-AB1-17	8-15-68
7-AB1-54	8-15-68
7-AB1-53 & 55	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	8-15-68
SA-124	8-1-68
7-AB4-13	8-15-68

PAINT

LACLEDE ELECTROCOAT RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD · TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE (1)				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA	
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH		
C32T18AL-5810	6	A242	2"x1 1/2"x .31	58'-10"	7	A36	3" x 2" x .33"	51'-2 1/2"	3	A36	.109	5'-2 1/2"	14 K@3'-4"=46'-8"	12	.109	—	CP 16	A36	3"x .25	41'-2"	4	.109	3"	P8	A36	3	4 1/2"x.39	5 1/2"	RA-2	A36	3"x 2"x.33"	7 1/2"		
									3B	A242	1.14	10'-7 5/8"	1 3/4 K@3'-4" = 5'-9"																					

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T18AL-5810	9	A242	2"x1 1/2"x .25"	2	9'-5"	5'-4 1/4"	DS 3B	A242	1.14	2'-6 3/4"	-	—	—	—	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH L	A36	10 30	10'-0"
		9A	A242	2"x1 1/2"x .25"	1	8 1/2"																			CH R	A36	10 30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

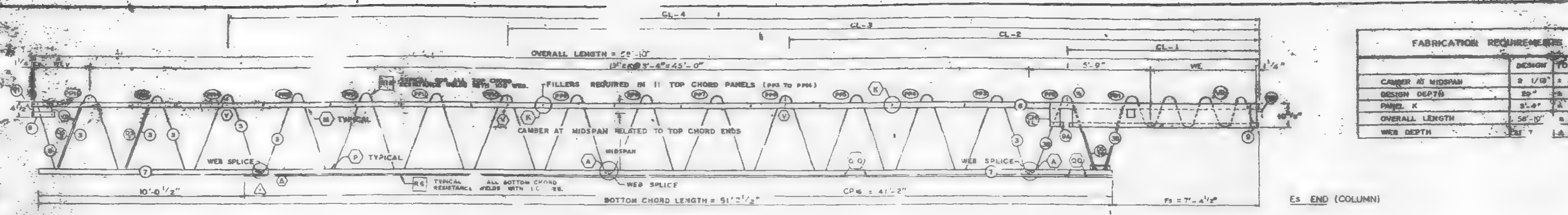
CORE END

E_L END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER (2 REQ'D) MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			DOUBLE STRUT (2 REQ'D)				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	C32T18AL-5810	9v	A242	2"x1 1/2"x .25"	10"	2'-6 1/4"	8	A36	.109	2'-[illegible] 3/4"	—	—	—	—	A36	.109	4 3/8"	—	—	—	—	—	—	DS 3	A242	.75	2'-6 3/4"	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T18AL (SEE NOTE 2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-7	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.	DATE 11/7/68	DRAWN BY g.l.c. DATE OCT. 8, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M. CHURA DATE OCT 10, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO. ST. 218AL



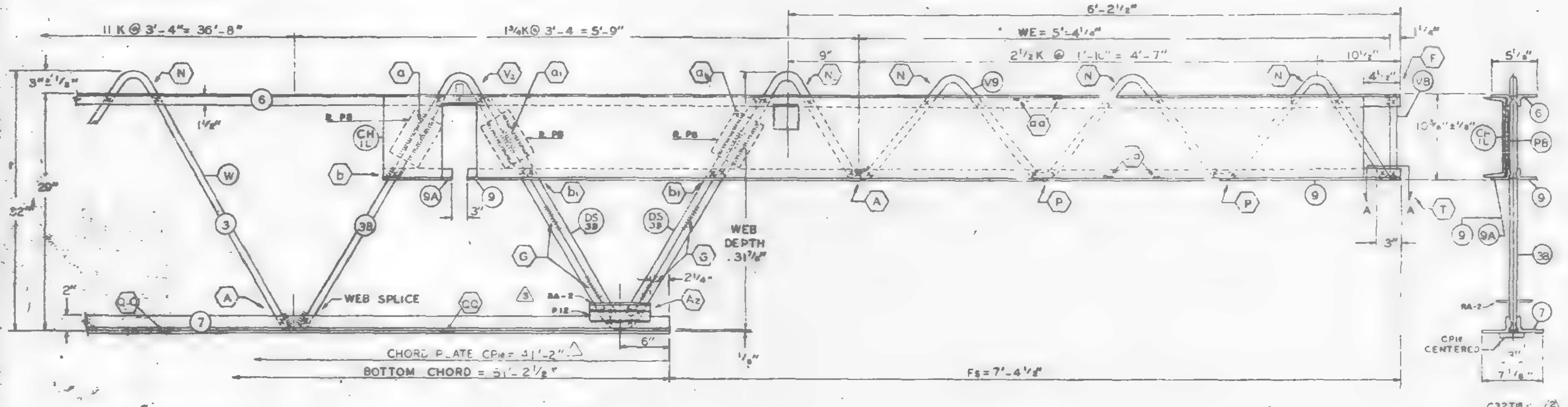
TRUSS ELEVATION

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3 [illegible]
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1 [illegible]
OVERALL LENGTH	58'-10"	± [illegible]
WEB DEPTH	31 7 [illegible]	± [illegible]

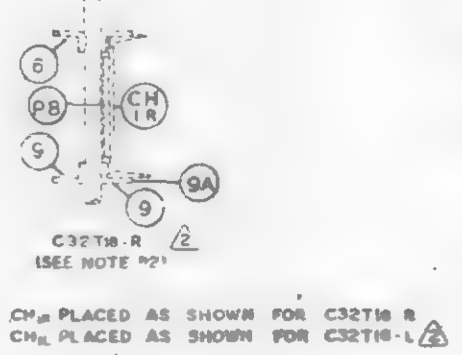
ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ([illegible]).
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R9].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 DETAIL.

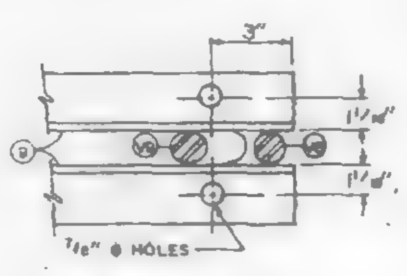
NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T18 L TRUSSES ARE APPLICABLE TO C32T18 R TRUSSES WITH CHANNEL CH18 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN. (2)



Es END (COLUMN)



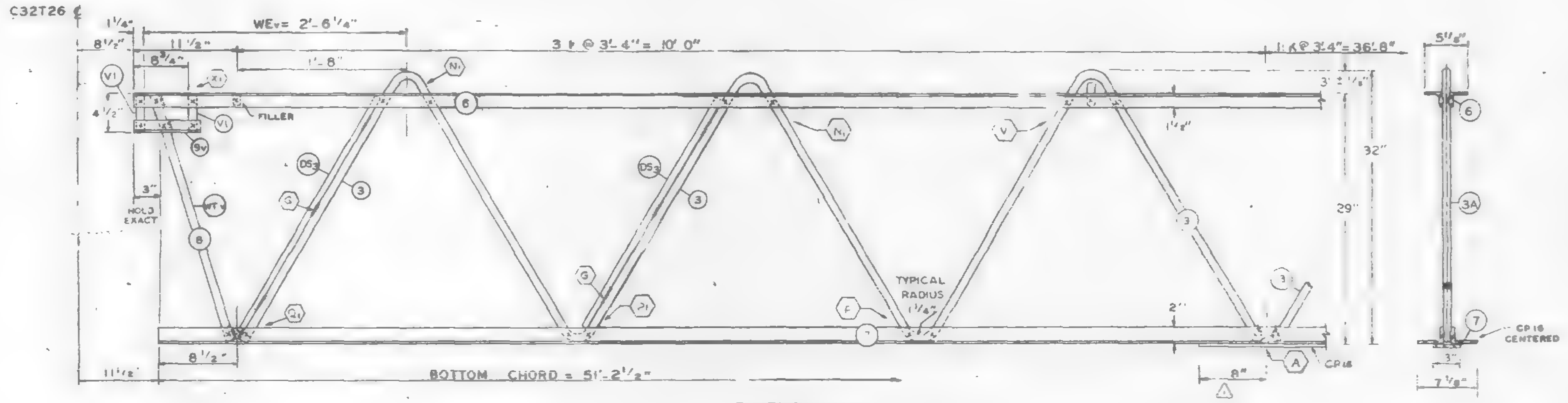


SECTION A-A

NO	DATE	REVISION	BY
3	12-10-68	AS NOTED	G.D.G.
2	11-7-68	AS NOTED	G.D.G.
1	10-31-68	CP16	L.W.H.

(3) REF. DRWG.

7-AB3-17	10-4-68
7-AB1-34	11-25-66
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-2A	8-15-68
7-AB4-17 & (2)	10-4-68
SA-124	10-11-68
7-AB4-13	7-22-66
7-AB1-58	10-15-68



EL END (CORE)

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION (2)	TOP CHORD TWO ANGLES: MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES: MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W": MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER: NO.	DIA.	"M" C/C HOLES	CHORD PLATE (1): MK	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS: NO.	DIA.	LENGTH	CHANNEL PLATES: MK	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES (3): MK.	TYPE STEEL	ANGLE SIZE	LENGTH (2 REQ'D)	SPECIAL PLATES: MK.	TYPE STEEL	SIZE	LENGTH (2 REQ'D)
C32T18-L-5810	6	A242	2"x1 1/2"x.31	58'-10"	7	A36	3" x 2" x .33"	51'-2 1/2"	3 / 3B	A36 / A242	1.09 / 1.14	10'-2 1/2" / 10'-7 3/4"	14 K @ 3'-4" = 46'-8" / 1 3/4 K @ 3'-4" = 5'-9"	12	1.09		CP16	A36	3"x 25	41'-2"	4	1.09	3"	P8	A36	3	4 1/2"x.39	5'-2"	RA2	A36	3"x 2"x .33"	7 1/2"	P12	A36	[illegible]	7 1/8"

COLUMN END

Es END	TRUSS DESIGNATION (2)	BEARING ANGLES: MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT: MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	CHORD PLATE: MK.	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8: TYPE STEEL	DIA.	LENGTH	MK. V9: TYPE STEEL	DIA.	LENGTH	MK. V10: TYPE STEEL	DIA.	LENGTH	CHANNEL: MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T18-L-5810	9 / 9A	A242 / A242	2"x1 1/2"x.25" / 2"x1 1/2"x.25"	2 / 1	9'-5" / 8 1/2"	5'-4 1/4"	DS	A242	1.14	2'-6 3/4"	—	—	—	—	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH18 / CH18	A36 / A36	10 □ 30 / 10 □ 30	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

CORE END

EL END	TRUSS DESIGNATION (2)	BEARING ANGLES: MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT: MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT: MK.	TYPE STEEL	DIA.	LENGTH	STIFFENER (2 REQ'D) MK. V1: TYPE STEEL	DIA.	LENGTH	MK. V2: TYPE STEEL	DIA.	LENGTH	MK. V4: TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT (2 REQ'D): MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT: MK.	TYPE STEEL	DIA.	LENGTH
	C32T18-L-5810	9v	A242	2"x1 1/2"x .25	10"	2'-6 1/4	8	A36	.09	2'-3 3/4"	—	—	—	—	A36	1.09	4 3/8"	—	—	—	—	—	—	DS5	A242	.75	2'-6 3/4"	—	—	—	—

FLOOR TRUSS DETAILS

WORLD TRADE CENTER - N.Y.C.

FOR

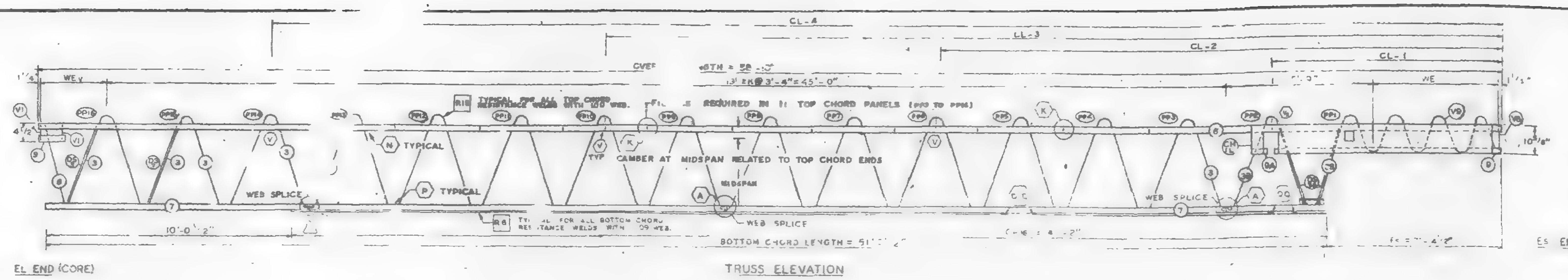
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T18-L (2) (SEE NOTE 2) x 58'-10"

WORLD TRADE CENTER TOWERS A & B

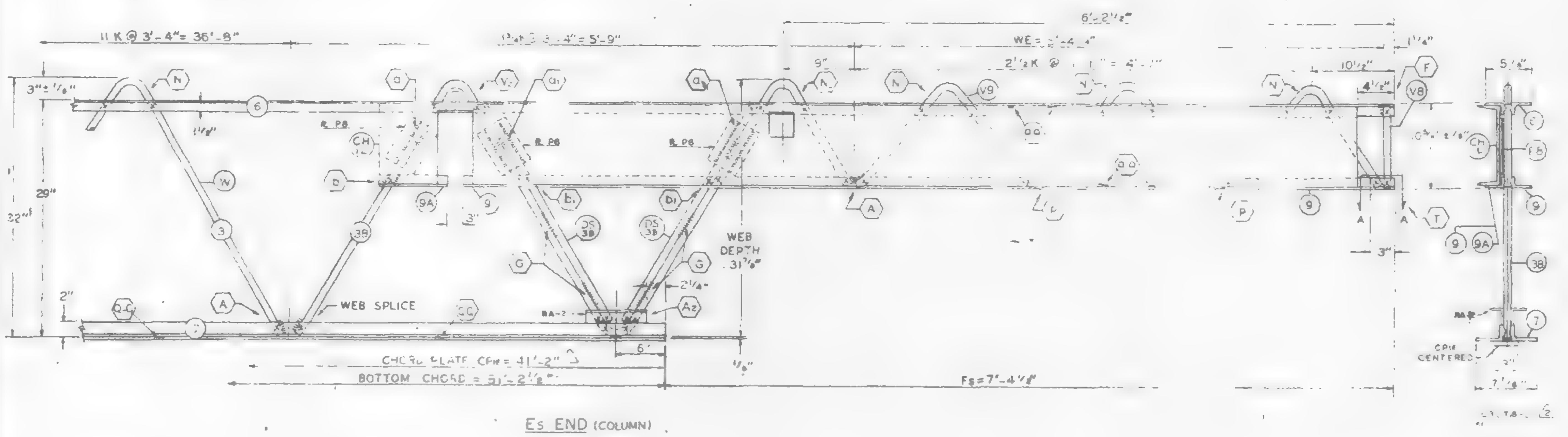
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-17	PLATE
APPROVED FOR FABRICATION BY: James White FOR P.O.N.Y.A	DATE 11/16/68	DRAWN BY: gdc DATE OCT. 3, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR LACLEDE STEEL CO.	DATE	CHECKED BY: I.H.CHURA DATE OCT 10, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST-218 LA

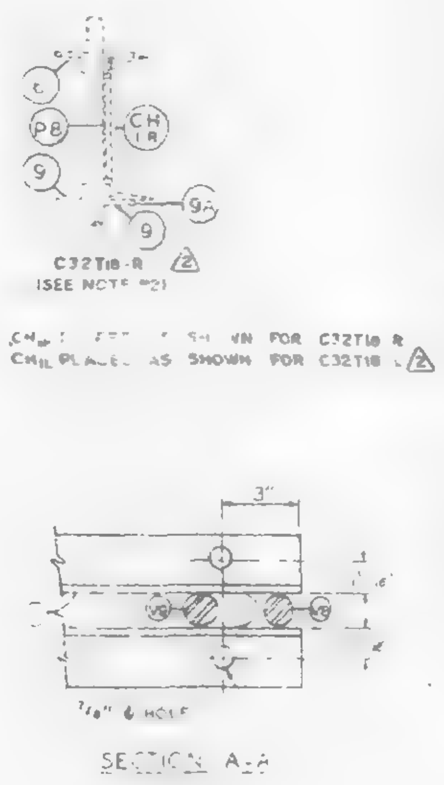


TRUSS ELEVATION

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4	± 1/4"
OVERALL LENGTH	58'-[illegible]	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



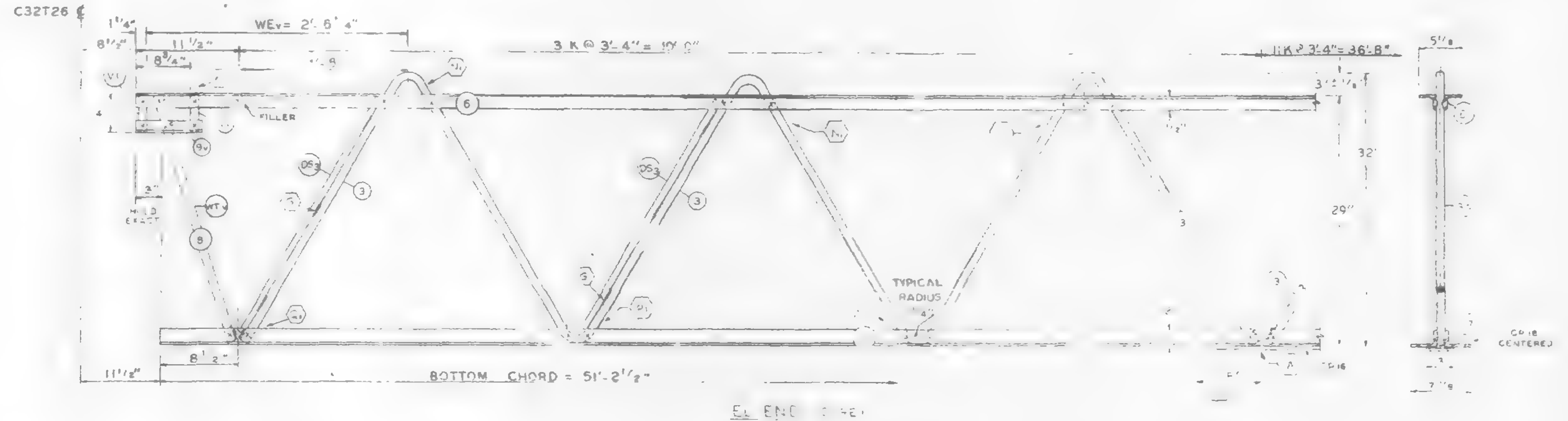
ES END (COLUMN)



ALL PANEL POINTS RESISTANCE WELDED. (*).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [RD].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 & ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR V1 DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T18-L TRUSSES ARE APPLICABLE TO C32T18-R TRUSSES WITH CHANNEL CHR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN. (2)



EL END (CORE)

NO	DATE	REVISION	BY
2	11-7-68	AS NOTED	G.O.C.
1	10-31-68	CP 6	A.H.

(2) REF. DRWG.

7-AB1-17	10-4-68
7-AB1-54	10-4-68
7-AB1-53	7-22-68
7-AB3-2	3-68
7-AB3-24	8-13-68
7-AB4-7 & 17	10-4-68
54-24	10-11-68
7-AB4-13	7-22-68
7-AB1-55	10-15-68

ELECTROCOAT
REQ. NO. 10001

TRUSS DESIGNATION (2)	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "A" MK	TYPE STEEL	DIA	LENGTH	NO. OF K	...	CHANNEL PLATES MK	TYPE STEEL	SIZE	LENGTH	REINFORCING ANGLES (2 REQ'D) MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T18 L-5810	6	A242	2"x1½"x 31	58'-10	7	A36	[illegible] x 2" x 33"	5'-2¼"	3 / 3B	A36 / A242	1.09 / 1.14	[illegible] / 10'-7⅝"	14 K @ 3'-4" = 46'-8" / 3.4 K @ 3'-4" = 5'-9"	[illegible]	[illegible]	A36	4 2"x39	5'-2"	RA-2	A36	2"x 2"x 33"	7½"	

Es END	TRUSS DESIGNATION (2)	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	W2	DOUBLE STRUT TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	LENGTH
	C32T18-L-5810	9 / 9A	A242 / A242	2"x 1½"x 25 / 2"x 1½"x 29	9'-5" / 8'-2"	[illegible]	A242	1.14	2'-6¾"	–	–			A242	1.14	10½"	A242	1.14	8'-3⅞"	CHR / CHR	A36 / A36	10'-0" / 10'-0"

COLUMN END

EL END	TRUSS DESIGNATION (2)	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	W1	DIAGONAL "Td" STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER (2 REQ'D) MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT (2 REQ'D) MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T18-L-5810	9A	A242	2"x1½"x 25	10"	2'-6¼"	8	A36	1.09	2'-3¾"	–	–	–	–	A36	1.09	4⅜"	–	—	–			DS3	A242	.75	2'-6¾"	–	—	—	—

CORE END

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-0½"	36'-2½"	49'-6½"	7'-4½"

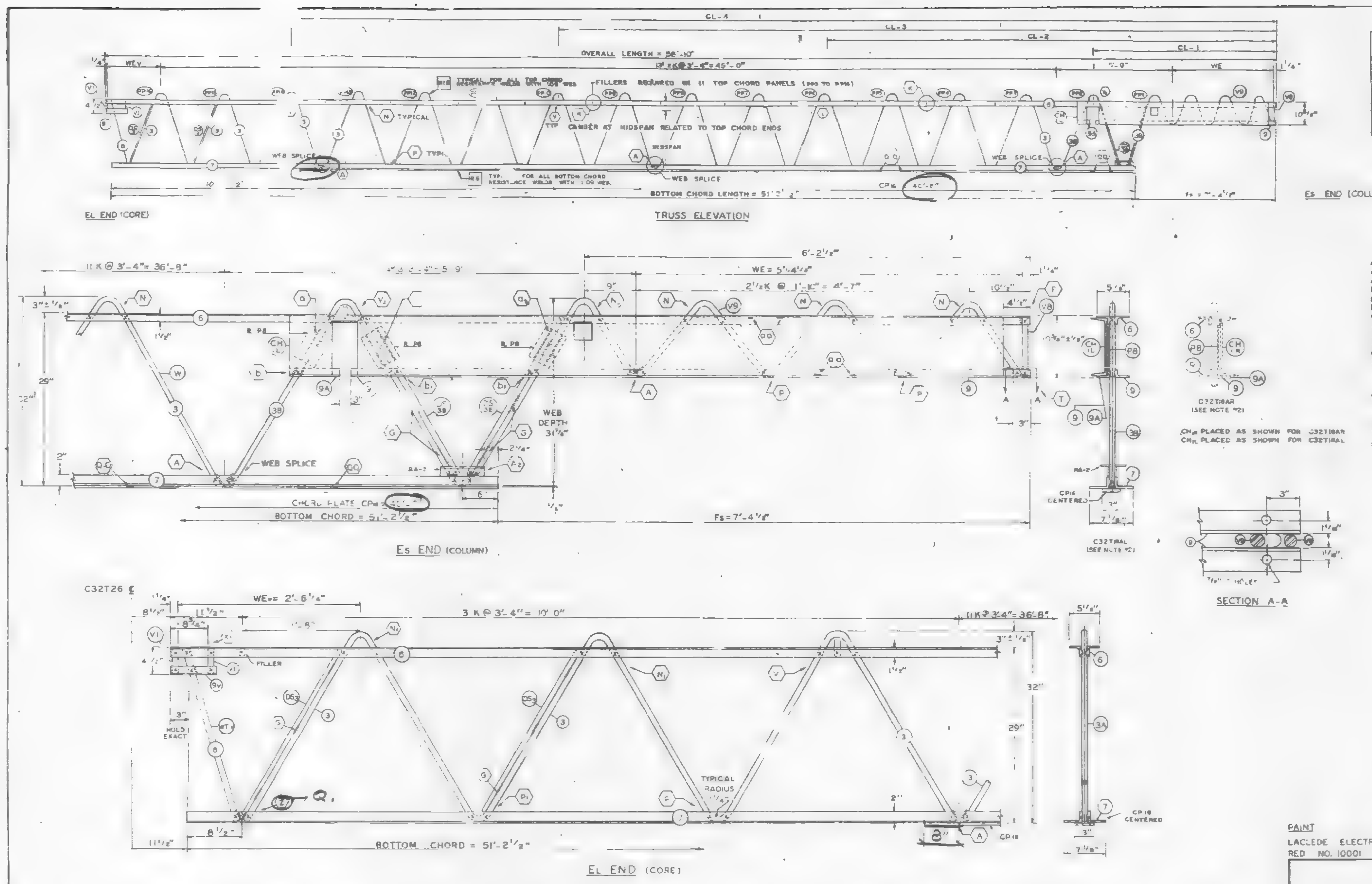
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T18-L (2) (SEE NOTE 2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

DESIGN BY LACLEDE STEEL COMPANY
ALTON, ILLINOIS

APPROVED FOR FABRICATION BY ___ FOR P.O.N.Y.A	DATE 11/18/68	DRAWN BY gdc DATE OCT 8, 1968	PLATE
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE OCT 10, 1968	IN CHARGE OF PROD DEV.
DETAILED BY A. CARL WEBER		FABRICATION CONT NO WTC 221	SHEET NO ST 218 L (2)

DESIGN DRAWING NO 7-AB 7



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED [illegible]
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL
LETTERS AND NUMBERS IN SQUARES INDICATE
RESISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291,
ST 292 & ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 402
CHORD PLATE DETAILS SHOWN ON SHEET ST 283
SEE SHEET ST 295 FOR VI DETAIL

NOTE 2

DETAILS & ELEVATIONS SHOWN FOR C32T1BAL TRUSSES ARE APPLICABLE TO C32T1BAR TRUSSES WITH CHANNEL CH18 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO	DATE	REVISION	BY

REF. DRWG	
7 AB1-17	8-5-68
7-AB1-54	8-5-68
7 AB1-53 & 55	7-22-68
7 AB3-2	-3-68
7 AB3-24	8-5-68
7-AB4-17 & 172	9-5-68
SA-124	6-1-68
7 AB4-13	8-15-68

X
10/29/68 SK

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	NO.	DIA	LENGTH	MK	TYPE STEEL	PCS	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	
C32T1BAL-5810	6	A242	2"x1 1/2"x 31	58'-10"	7	A36	3" x 2" x .33"	51'-2 1/2"	3 38	A36 A242	1.09 1.14	9'-2 1/2" 10'-7 3/8"	4 K @ 3'-4" = 46'-8" 3 4K @ 3'-4" = 5'-9"	2	1.09"		CP16	A36	3" x 2	40'-6"	4	1.09	3"	P6	A36	3	4"x2"x39	5'-2"	RA-2	A36	3" x 2" x 33"	7'-2"	

COLUMN END

ES END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T1BAL-5810	9 9A	A242 A242	2" x 1 1/2" x 25" 2" x 1 1/2" x 25	1 1	9'-5" 8 1/2"	5'-4 1/4"	DS	A242	1.14	2'-6 3/4"	—	—	—	—	A242	1.14	10 1/2"	A242	1.14	8'-3 7/8"	—	—	—	CH8 CH9	A36 A36	10-30 10-30	10'-0" 10'-0"

CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	FS
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEV	DIAGONAL "TV" STRUT				VERTICAL "STV" STRUT				END STIFFENER (2 REQ'D) MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			DOUBLE STRUT (2 REQ'D)				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T1BAL-5810	9V	A242	2"x1 1/2"x 25	10"	2'-6 1/4"	8	A36	1.09	2'-5 3/4"	—	—	—	—	A36	1.09	4 3/8"	—	—	—	—	—	—	DS3	A242	.75	2'-6 3/4"	—	—	—	—

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T1BAL (SEE NOTE #2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. [illegible]

APPROVED FOR FABRICATION DATE
BY ____ FOR P.O.N.Y.A.

DRAWN BY gdc
DATE OCT 8 1968

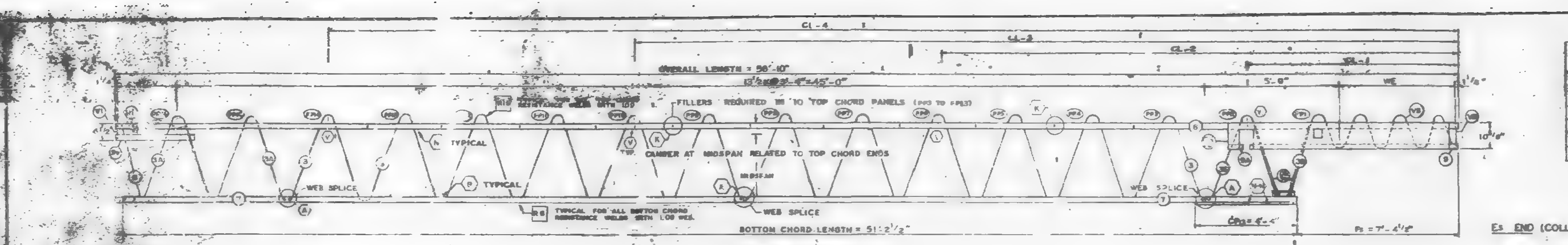
APPROVED FOR FABRICATION DATE
BY: ____ FOR FABRICATOR

CHECKED BY [illegible]
DATE OCT 10, 1968

DETAILED BY: A CARL WEBER

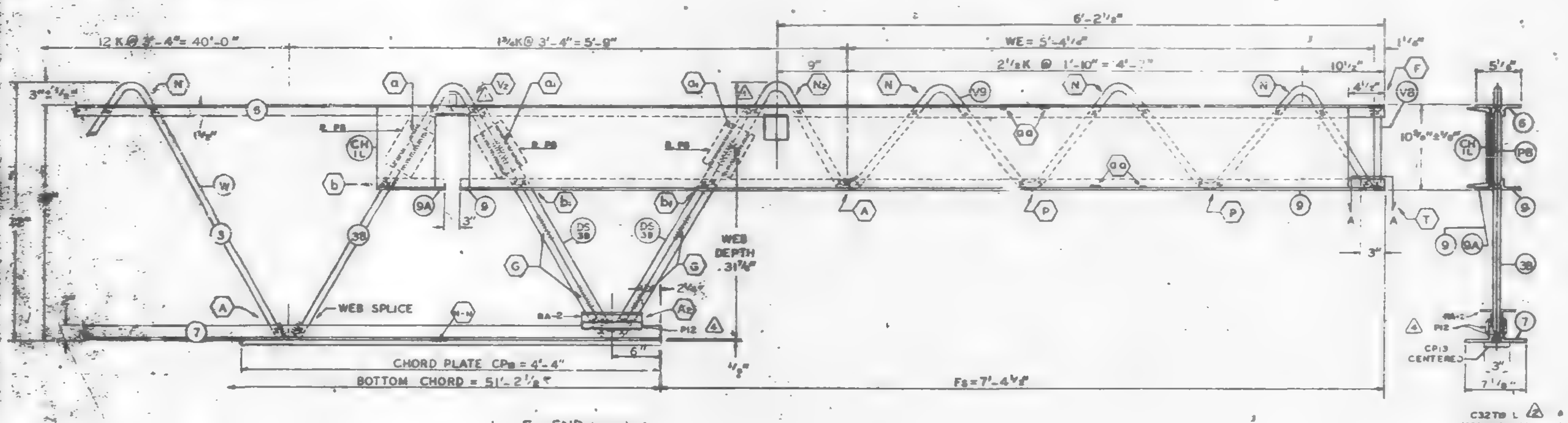
FABRICATION UNIT NO. WTC 22
SHEET NO. ST 218AL

I

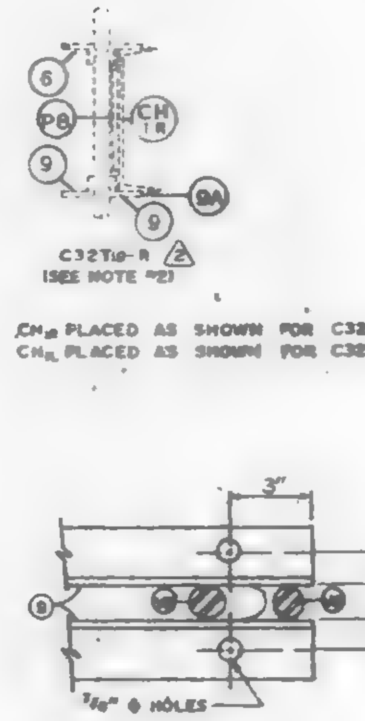


TRUSS ELEVATION

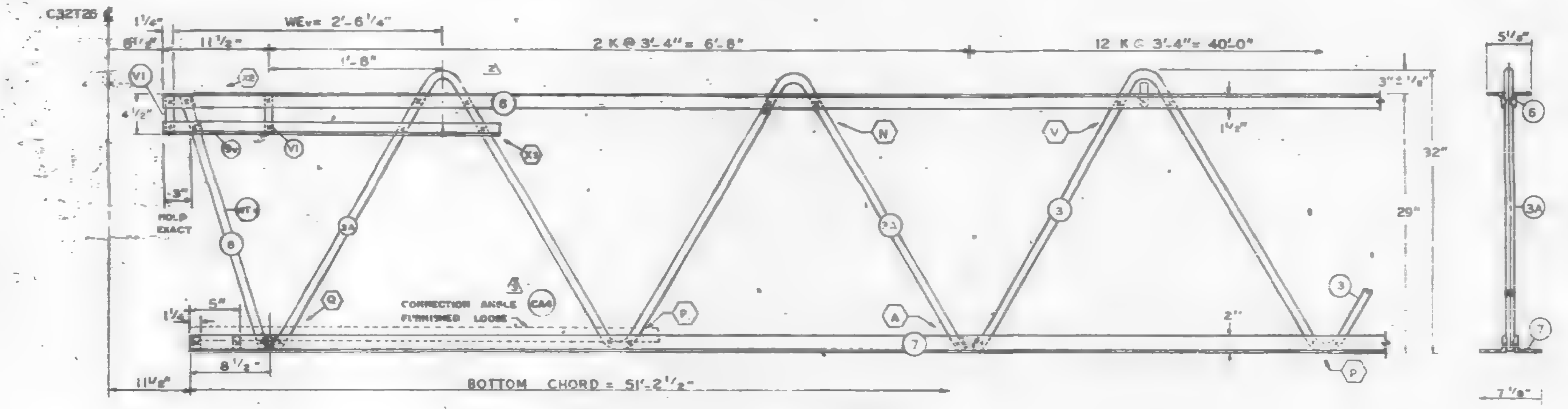
Es END (COLUMN)



Es END (COLUMN)



SECTION A-A



EL END (CORE)

FABRICATION [illegible]		
CAMBER AT MIDSPAN	[illegible]	± 3/8"
DESIGN DEPTH	29"	± 1/8"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± [illegible]
WEB DEPTH	31 3/8"	± 1/8"

ALL PANEL POINTS RESISTANCE WELDED (A). ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES [illegible]. LETTERS IN HEXAGON INDICATE WELD DETAILS. LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH [illegible] QUALITY CONTROL PROGRAM [illegible]. ALL WELD DETAILS SHOWN ON [illegible] ST 292 & ST 293. ALL CHANNEL DETAILS SHOWN ON SHEET [illegible]. CHORD PLATE DETAILS SHOWN ON SHEET [illegible]. SEE SHEET ST 295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T19 [illegible] TRUSSES ARE APPLICABLE TO C32T19 R [illegible] WITH CHANNEL CHR AND BEARING ANGLE [illegible] PLACED ON OPP. HAND AS SHOWN.

NO	DATE	REVISION	BY
4	12-20-68	AS NOTED	
3	12-3-68	AS NOTED	
2	11-7-68	AS NOTED	
1	10-31-68	AS NOTED	

3 REF. DRWG.

7-AB1-18	10-4-68
7-AB1-24	11-25-68
7-AB1-[illegible]	7-22-68
7-AB2-[illegible]	1-3-68
7-AB[illegible]-24	[illegible]
7-AB4-17 & 17.2	10-4-68
SA-124	10-11-68
7-AB4-11	7-22-[illegible]
7-AB1-55	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLE (4)				SPECIAL PLATES			
(2)	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	2 REQ'D LENGTH	MK	TYPE STEEL	SIZE	2 REQ'D LENGTH
C32T19-L-5810	6	A242	2"x1 1/2"x.31	58'-10"	7	A36	3"x2"x.33"	51'-2 1/2"	3 3A 3B	A36 A242 A242	1.09 1.14 1.14	74'-9" 12'-5 1/2" 10'-7 5/8"	12 K@3'-4"=40'-4 2 K@3'-4"=6'-8 1 3/4 K@3'-4"=5'-9"	12	1.09	—	—	—	—	—	4	1.09	3"	P6	A36	3	4 2"x.39	5 1/2"	RA2	A36	3"x2"x.33"	[illegible] 2"	P12	A36	1"x3/8"	7 1/2"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER			MK. V10			CHANNEL			
	(2)	MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T19-L-5810	[illegible]	[illegible]	[illegible]	2 1	9'-5" [illegible] 1/2"	5'-4 1/4"	DS	A242	1.14	2'-6 3/4"	CP13	A36	3"x.25"	4'-4"	A242	1.14	10 1/2"	A242	1.14	8'-3 7/[illegible]	—	—	—	CHL CHR	A36 A36	10-30 10-30	10'-0" 10'-0"

CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEV	DIAGONAL "TV" STRUT				VERTICAL "STV" STRUT				END STIFFENER (2 REQ'D) MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT				CONNECTION ANGLE (1 FURNISH LOOSE)				
	(2)	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
	C32T19-L-5810	9V	A242	2"x1 1/2"x.31	3'-3"	2'-6 1/4"	8	A242	1.14	2'-5 3/8"	—	—	—	—	A242	1.14	4 3/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA-4	A242	2"x1 1/2"x.37	4'-4"

(3)

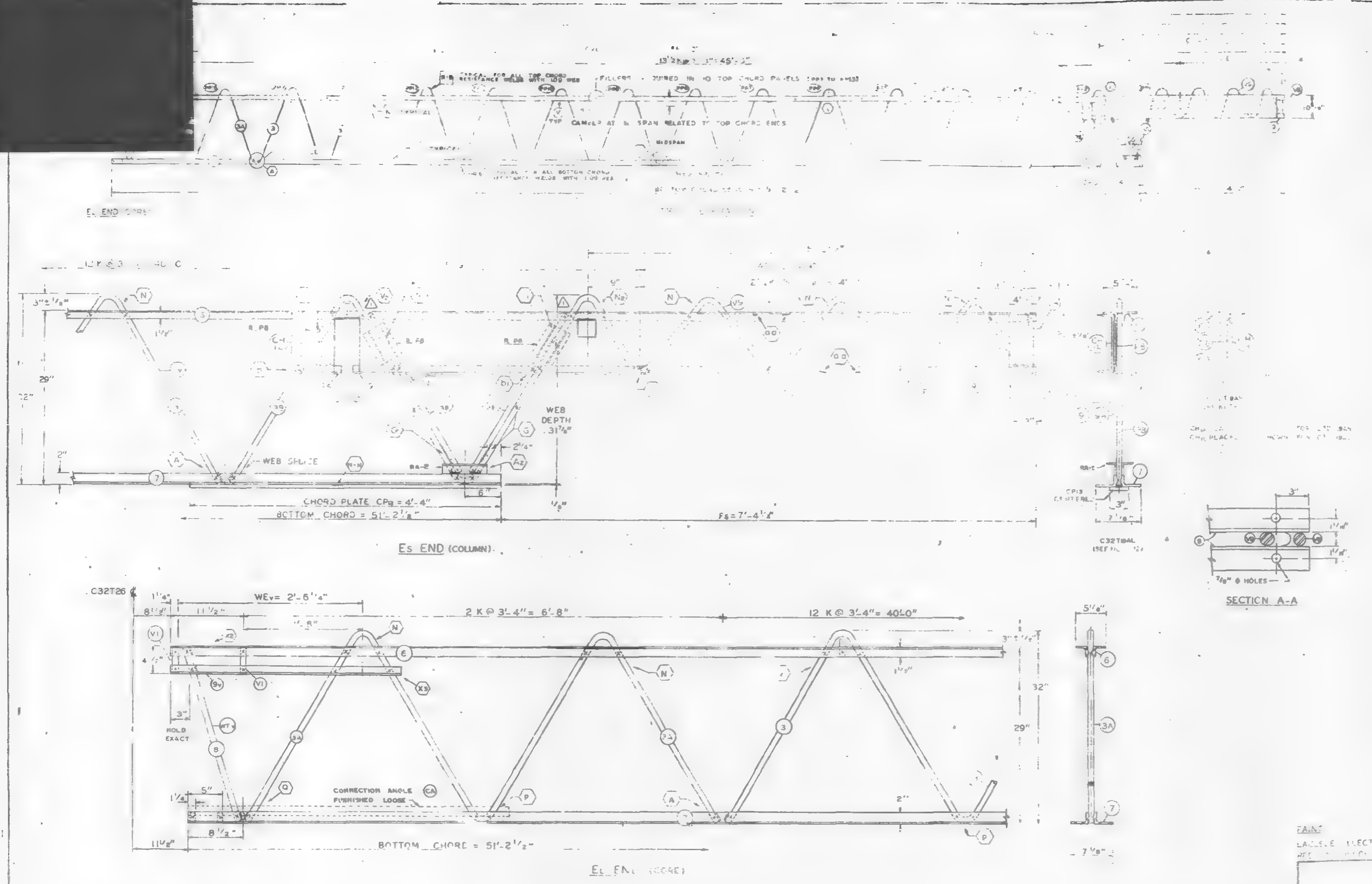
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
[illegible]
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T19-L (2) (SEE NOTE 2) x 58'-10"

WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-18	[illegible]
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White — DATE 1/13/69	DRAWN BY: gdc DATE OCT. 8, 1968	
APPROVED FOR FABRICATION BY [illegible] FOR FABRICATOR — DATE	CHECKED BY: [illegible] DATE OCT 10, 1968	IN CHARGE OF [illegible]
DETAILED BY: A. CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET ST 289

[redacted]



FABRICATION REQUIREMENT

	DESIGN	TOLERANCE
[illegible]	1 15/16"	± 3/8"
[illegible]	29	± 1/4"
[illegible]	3'-4"	± 1/4"
[illegible]	58'-10"	± 3/8"
[illegible]	1'-8"	± 1/4"

[illegible] WELDED [illegible]
[illegible] WEB SPLICES [illegible]
[illegible] HEXAGON INDICATE WELD DETAIL, ie. (A)
[illegible] NUMBERS IN SQUARES INDICATE [illegible] IDENTIFIED IN THE [illegible] PROGRAM, ie. [illegible]
[illegible] DETAILS SHOWN ON SHEETS ST290, ST291, ST 292 & ST 293.
[illegible] CHANNEL DETAILS SHOWN ON SHEET ST 407.
[illegible] DETAILS SHOWN ON SHEET ST 283
SEE SHEET ST295 FOR VI DETAIL

[illegible] SHOWN FOR C32T19AL [illegible] APPLICABLE TO C32T19AR TRUSSES WITH CHANNEL CHIR AND BEARING ANGLE 9A PLACED ON OPP HAND AS SHOWN.

	NO	DATE	REVISION	BY
	1	10-31-68	AS NOTED	LWH

REF. DRWG.

7-AB1-18	8-15-68
7-AB1-34	8-15-68
7-AB1-53 & 56	7-22-68
7-AB3-2	1-3-68
7-AB1-24	8-15-68
7-AB4-17 & 17.2	8-15-68
8A-124	8-1-68
7-AB4-11	7-22-68

PAINT
LACLEDE ELECTROCOAT [illegible]

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB					FILLER PACKS		[illegible]
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA	
C32T19AL-5810	6	A242	2"x[illegible]x3[illegible]	58'-10"	7	A36	3"x2"x.33"	5[illegible]'-2 1/2"	3 / 3A / 3B	A36 / A242 / A242	1.08 / 1.14 / 1.14	4'-9" / 2'-5 1/2" / 10'-7 5/8"	12 K @ 3'-4" = 40'-4 / 2 K @ 3'-4" = 6'-8 / 3.4 K @ 3'-4" = 5'-9"	2	[illegible]	

REINFORCING ANGLES (2 REQ'D)				
MK	TYPE STEEL	SIZE	LENGTH	
4A2	A36	3"x 2"x.33"	7 1/2"	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER									CHANNEL			
		MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	MK. V8 TYPE STEEL	DIA	LENGTH	MK. V9 TYPE STEEL	DIA	LENGTH	MK. V10 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T19AL-5810	9 / 9A	A242 / A242	2"x[illegible]x.25" / 2"x[illegible]x.25"	[illegible]	[illegible]	5'-4 1/4"	[illegible]	A242	1.14	2'-6 3/4"	CP8	A36	3"x.25"	4'-4"	A242	1.14	10'-2"	A242	1.14	8'-3 7/8"	-	-	-	CHIR / CHIL	A36 / A36	10 [illegible] 30 / 10 [illegible] 30	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

CORE END

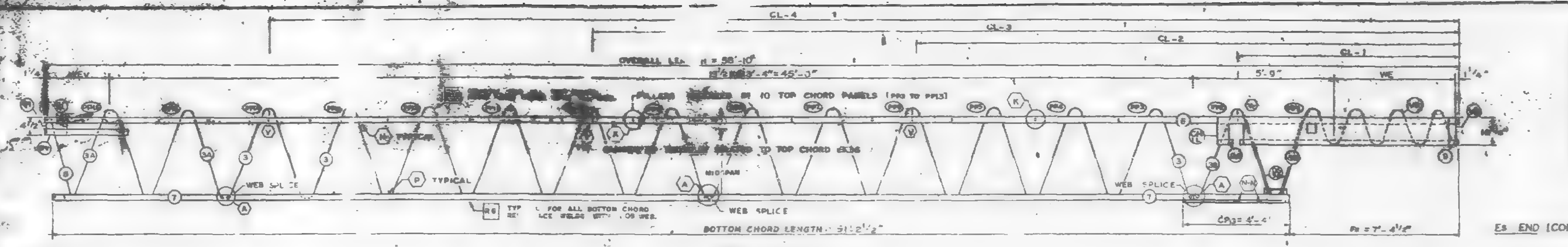
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "TV" STRUT				VERTICAL "SV" STRUT				END STIFFENER (2 REQ'D)									DOUBLE STRUT				DOUBLE STRUT				CONNECTION ANGLE (FURNISH LOOSE)				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. V TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
	C32T19AL-5810	9B	A242	2"x1 1/2"x 3[illegible]	3'-[illegible]	2'-6 1/4"	8	A242	1.14	2'-6 3/4"	-	-	-	-	A242	1.14	4'-[illegible]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	CA	A242	2"x1 1/2"x.37	4'-4"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER, N.Y.C.
[illegible]
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T19AL [illegible] x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-18	PLATE
APPROVED FOR FABRICATION BY [illegible] DATE 11/7/68	DRAWN BY gdc DATE OCT. 8, 1968	
APPROVED FOR FABRICATION BY [illegible] DATE	CHECKED BY [illegible] CHURA DATE OCT 10, 1968	IN CHARGE OF PROD. [illegible]
DETAILED BY A. CARL [illegible]	FABRICATION CONT. NO. [illegible] 221	SHEET NO ST 219A



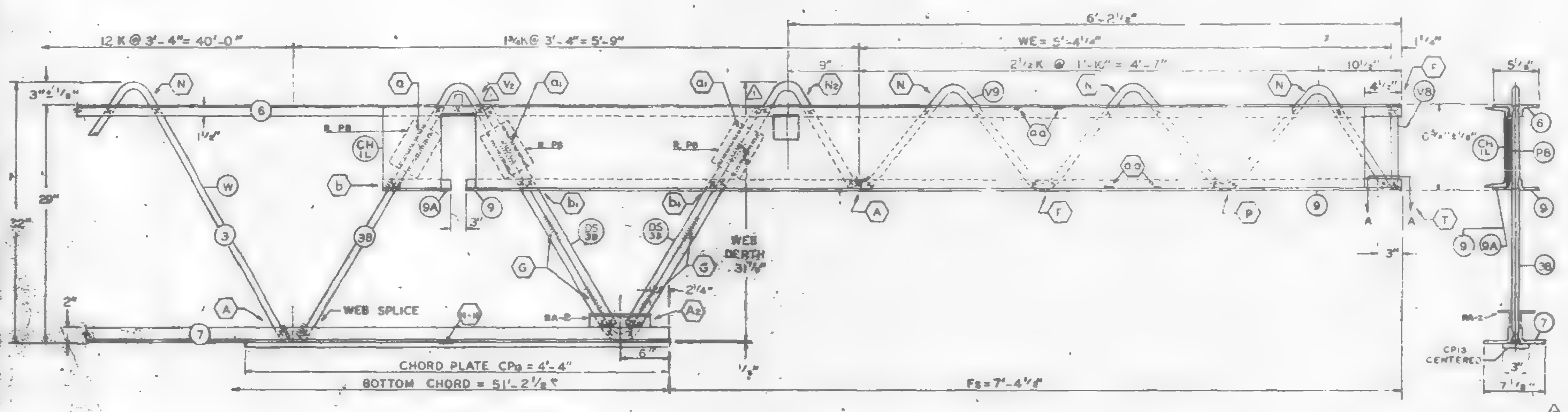
EL END (CORE)

TRUSS ELEVATION

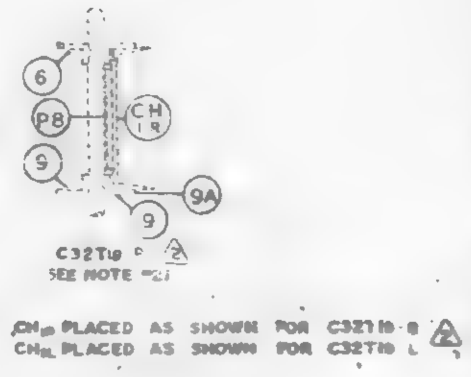
ES END (COLUMN)

FABRICATION REQUIREMENT	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16	[illegible]
DESIGN DEPTH	29"	[illegible]
PANEL K	3'-4"	[illegible]
OVERALL LENGTH	58'-10"	[illegible]
WEB DEPTH	[illegible]	[illegible]

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R8].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 292 & ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST295 FOR VI DETAIL.

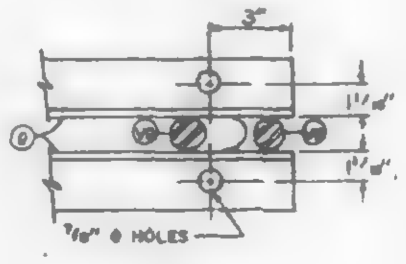


ES END (COLUMN)

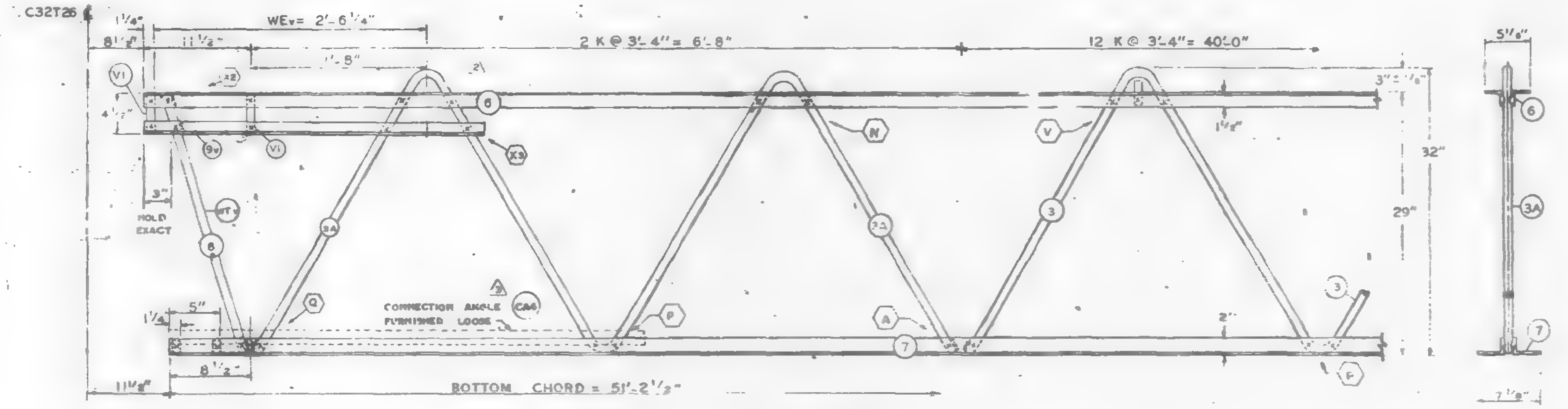


NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T19-L TRUSSES ARE APPLICABLE TO C32T19-R TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



EL END (CORE)

NO	DATE	REVISION
3	12-3-68	AS NOTED
2	11-7-68	AS NOTED
1	10-31-68	AS NOTED

3 REF. DRWG.

7-AB1-18	10-4-68
7-AB1-34	11-25-68
7-AB1-58	7-22-68
7-AB2-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	10-4-68
SA-124	10-11-68
7-AB4-11	7-22-68
7-AB1-95	10-15-68

LACLEDE STEEL CO

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA	
2	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		MK	TYPE STEEL	SIZE	LENGTH	NO	DIA	LENGTH	MK	TYPE STEEL	PCS	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH		
C32T19 L-5810	6	A242	2"x1½"x .31	58'-10"	7	A36	3" x 2" x .33"	51' 2½"	3 3A 3B	A36 A242 A242	1.08 1.14 1.14	74'-9" 12'-5½" 10' 7⅜"	12 K @ 3'-4" = 40'-4" 2 K @ 3'-4" = [illegible] 2½ K @ 3'-4" = [illegible]	12	1.09	—	—	—	—	—	4	1.09	3"	P8	A36	3	4 2"x.39	5' 1½"	RA2	A36	3"x 2"x.33"	7½"		

ES END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL			
COLUMN END	2	MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T19-L-5810	9 9A	A242 A242	2"x[illegible]x.25" 2"x[illegible]x.25"	2 1	9'-5" 8'-7½"	5'-4¼"	DS 3B	A242	1.14	2'-6¾"	P13	A36	3"x.25"	4'-4"	A242	1.14	10½"	A242	1.14	8'-3⅞"	—	—	—	CH1R CH1L	A36 A36	10 .30 10 .30	10'-0" 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

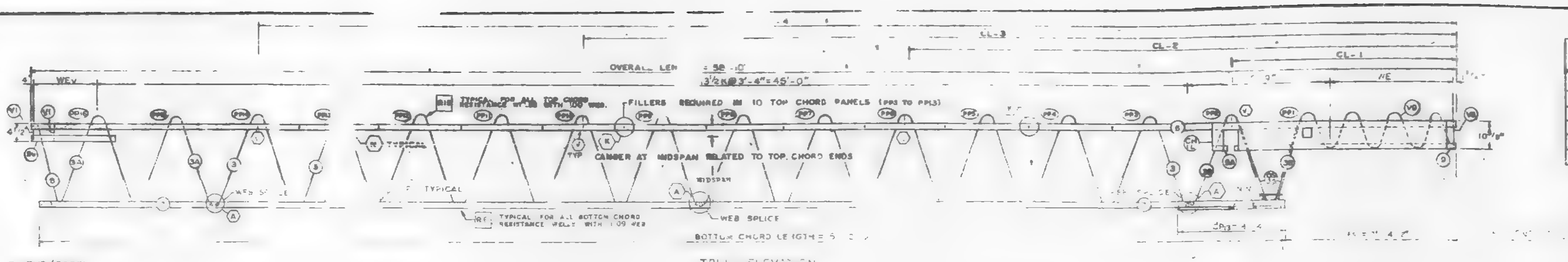
LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4⅛"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER (2 REQ'D) MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT				CONNECTION ANGLE (FURNISH LOOSE)				
CORE END	2	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
	C32T19-L-5810	9v	A242	2"x1½"x .31	3' [illegible]	2'-6¼"	8	A242	1.14	2'-5¾"	—	—	—	—	A242	1.14	4⅜"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA-4	A242	2"x1½"x.37	4'-4"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

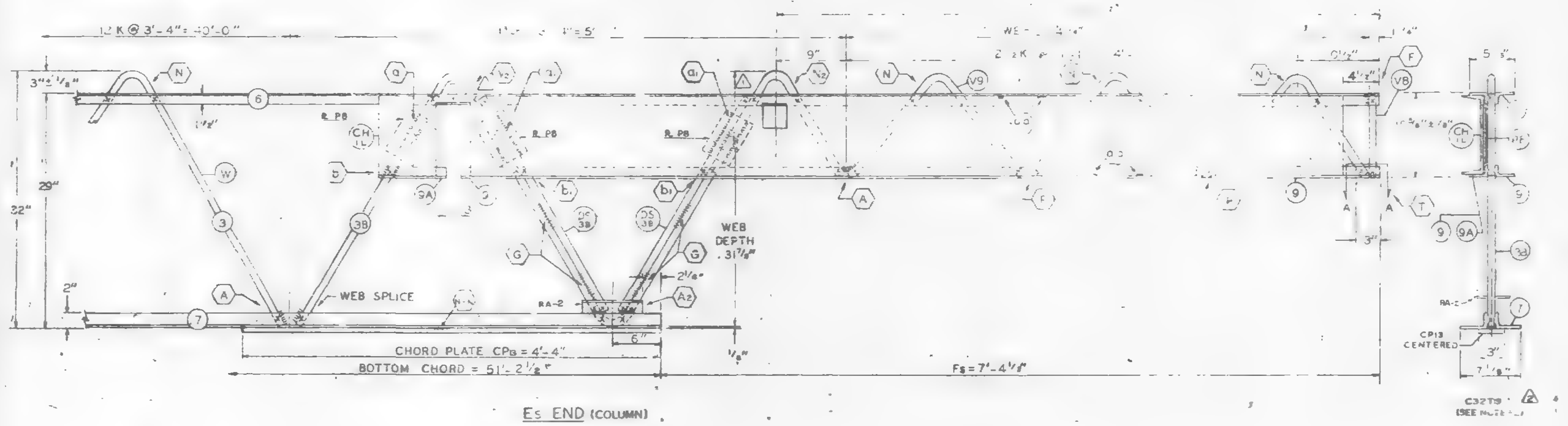
FLOOR TRUSS C32T19-L (2) SEE NOTE 2 x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-18	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A DATE 12/9/68	DRAWN BY gtc DATE OCT 8, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE OCT 10, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER	FABRICATION CONT NO WTC 221	SHEET ST 289

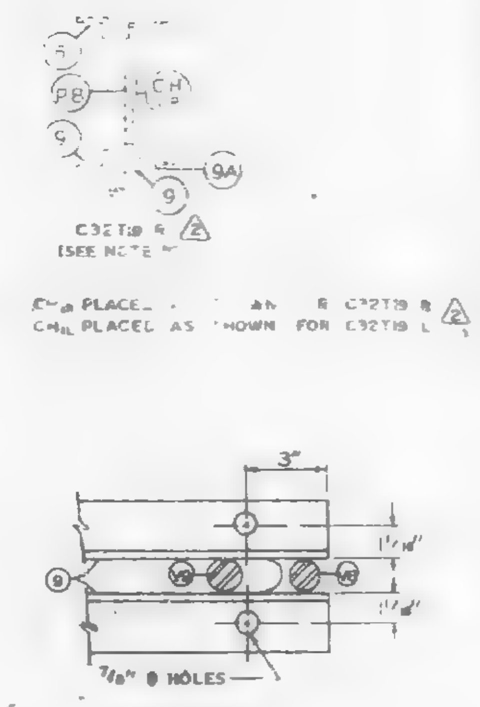


EL END (CORE)

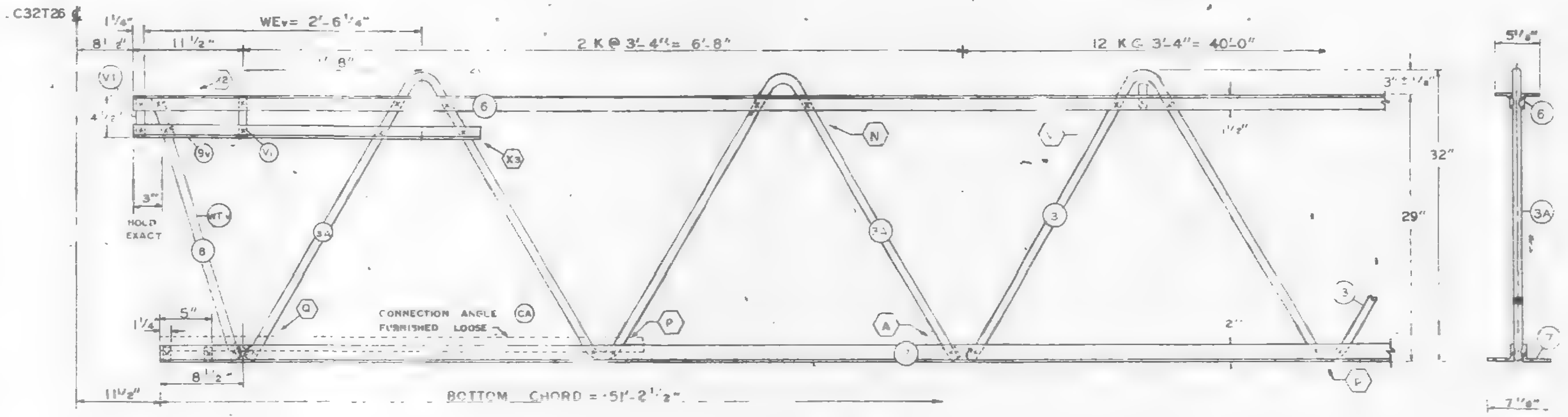
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A



EL END (CORE)

FABRICATION REQUIREMENT.		
	DE GN	TOLERANCE
CAMBER AT MIDSPAN	1 15/'5"	± 3/8"
DESIGN DEPTH	29	± 1/4"
PANEL K	3'-4"	± 1 '4"
OVERALL LENGTH	58-10"	± '8"
WEB DEPTH	31 7	± 1/4"

ALL PANEL POIN RESISTANCE WELDED. (X). ARC WELDS INDICATED AT SHADED AREAS ANE AT BOTTOM CHORD WEB SPLICES. LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie., [PB]. ALL WELD DETAILS SHOWN ON SHEETS ST 290, ST 291, ST 292 & ST 293. ALL CHANNEL DETAILS SHOWN ON SHEET ST 407. CHORD PLATE DETAILS SHOWN ON SHEET ST 283. SEE SHEET ST 295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T19-L TRUSSES ARE APPLICABLE TO C32T19-R TRUSSES (2) WITH CHANNEL CHM AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO	DATE	REVISION	BY
(2)	11-7-68	AS NOTED	G.D.C.
(1)	10-31-68	AS NOTED	LWH

(2) REF. DRWG.

7-AB 1-18	10-4-68
7-AB1-54	10-4-68
7-AB1-53	7-22-68
7 AB3-2	1-3-68
7 AB3-24	8-15-68
7-AB4-17 & 172	10-4-68
5A-124	10-11-68
7 AB4-11	7-22-68
7 AB1-55	10-15-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/L HOLES	CHORD PLATE						CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA
(2)	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		MK	TYPE STEEL	SIZE	LENGTH	NO.	LENGTH	MK	TYPE STEEL	PCS.	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	
C32T19-L-58-0	6	A242	2"x1½"x.31	58	7	A36	2"x.33"	51'-2½"	3 / 3A / 3B	A36 / A242 / A242	1.09 / 1.14 / 1.14	74.9" / 12-5" / 10'-7 5/8"	12 K@3'-4"=40-0 / 2 K@3'-4"=6-8 / 3 4K@3'-4"=5'-9"	12	1.09	—	—	—	—	—	4	3"	CHB	A36	3	4½"x39	5'-2"	RA-2	A36	3½"x2"x.33"	7½"	

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL			
	(2)	MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T19-L-58'	9 / 9A	A242 / A242	2"x 2"x / 2"x 2"x		9'-5" / 8	4"	3B	A242	4	6¾"	CP 3	A36	3"x.25"	4'-4"	A242	1.14	10½"	A242	1.14	8-3⅞"	—	—	—	CHB / CHM	A36 / A36	10.30 / 10.30	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4⅛"

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL ST. STRUT				VERTICAL ST. STRUT				END STIFFENER (2 REQ'D) MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT				CONNECTION ANGLE (FURNISH LOOSE)				
	(2)	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO.	MK.	TYPE STEEL	ANGLE SIZE	LENGTH
	C32T19-L-58-0	9v	A242	2"x1½"x.31	3	2'-6¼"	8	A242	1.14	2-5¾"	—	—	—	—	A242	1.14	⅞"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA	A242	2"x1½"x.37	4'-4"

FLOOR TRUSS DETAIL

FOR

WORLD TRADE CENTER

FOR

PORT OF NEW YORK AUTHORITY

EL END TRUSS C32T19-L (2) SEE NOTE x 58'-0"

WORLD TRADE CENTER TOWERS A & B

LACLEDE STEEL COMPANY

FABRICATED AT ALTON, ILLINOIS

DESIGN DRAWING NO. 7-A5 8

PLATE

APPROVED FOR FABRICATION BY FOR PONYA — DATE 11/18/68

DRAWN BY gdc — DATE OCT. 5, 1968

APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE

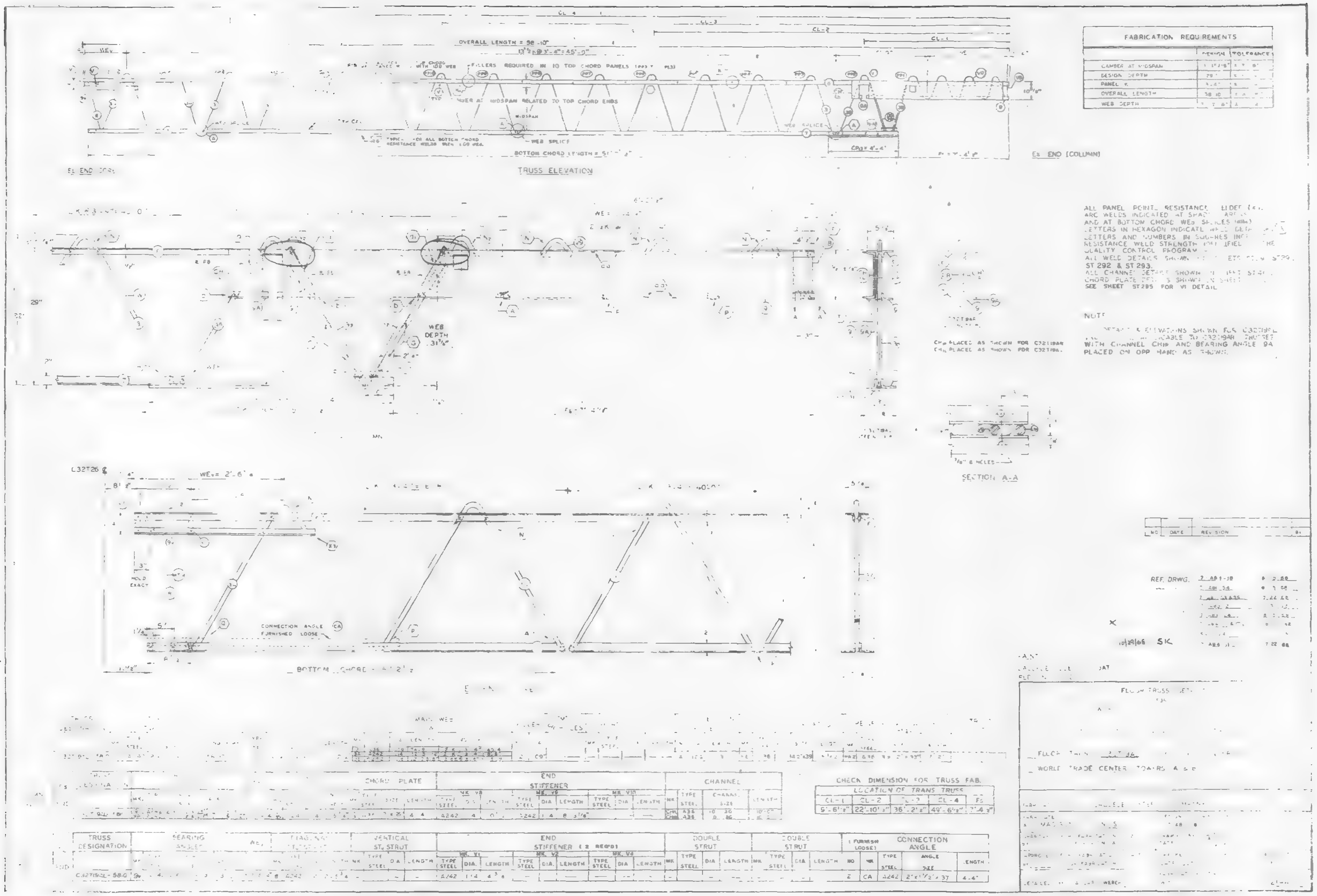
CHECKED BY T.M. CHURA — DATE OCT. 10, 1968

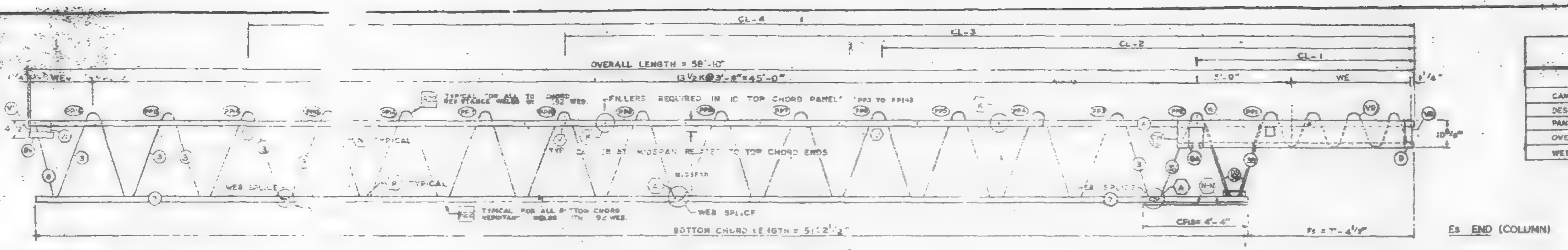
IN CHARGE OF PROD. DEV.

DETAILED BY A. CARL WEBER

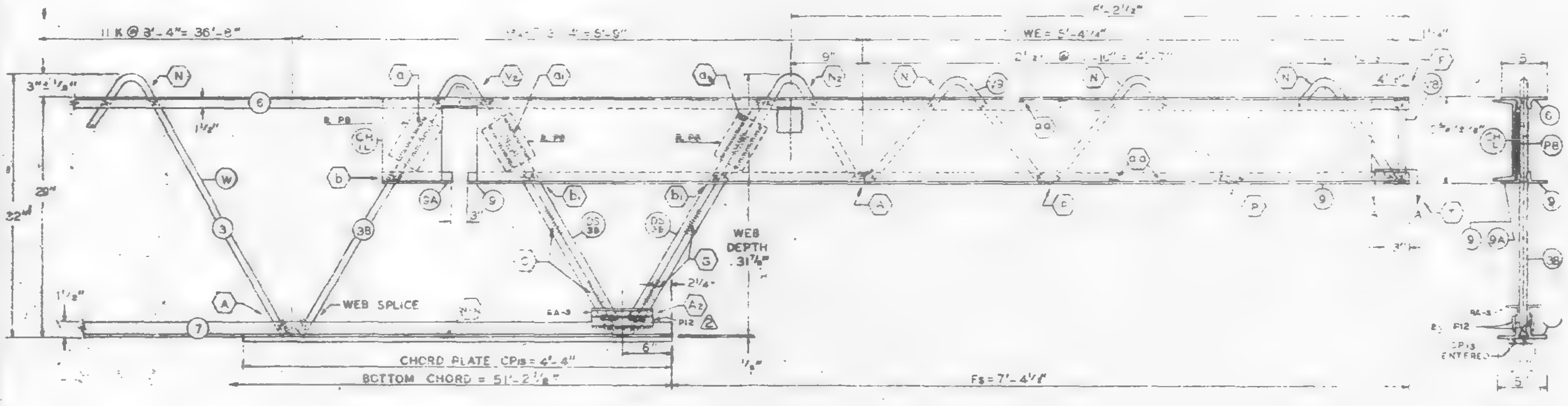
FABRICATION CONT. NO. W.T.C. 221

SHEET NO. ST 219 (2)


FABRICATION REQUIREMENTS
DESIGN
TOLERANCE
CAMBER AT MIDSPAN
DESIGN DEPTH
PANEL
OVERALL LENGTH
58 10
WEB DEPTH
OVERALL LENGTH = 58'-10"
TRUSS ELEVATION
BOTTOM CHORD LENGTH
WEB SPLICE
MIDSPAN
Es END (COLUMN)
WEB DEPTH 31⅞"
SECTION A-A
C32T26
CONNECTION ANGLE FURNISHED LOOSE
BOTTOM CHORD
ALL PANEL POINT RESISTANCE
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
LETTERS IN HEXAGON INDICATE WELD DETAIL
LETTERS AND NUMBERS IN SQUARES INDICATE
RESISTANCE WELD STRENGTH
QUALITY CONTROL PROGRAM
ALL WELD DETAILS SHOWN
ST 292 & ST 293.
ALL CHANNEL DETAILS SHOWN
CHORD PLATE
SEE SHEET ST 295 FOR VI DETAIL
NOTE
WITH CHANNEL CHIP AND BEARING ANGLE 9A
PLACED ON OPP HAND AS SHOWN.
REF. DRWG.
10/29/68 SK
CHORD PLATE
END STIFFENER
CHANNEL
CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS TRUSS
CL-1
CL-2
CL-4
5'-6½"
22'-10½"
36'-2½"
49'-6½"
7'-4½"
TRUSS DESIGNATION
BEARING ANGLE
VERTICAL ST. STRUT
END STIFFENER (2 REQ'D)
DOUBLE STRUT
CONNECTION ANGLE
(FURNISH LOOSE)
TYPE STEEL
DIA
LENGTH
ANGLE SIZE
2
CA
A242
2"x1½"x 37
4-4"
WORLD TRADE CENTER TOWERS A & B



TRUSS ELEVATION

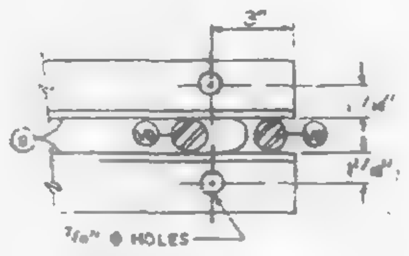


Es END (COLUMN)

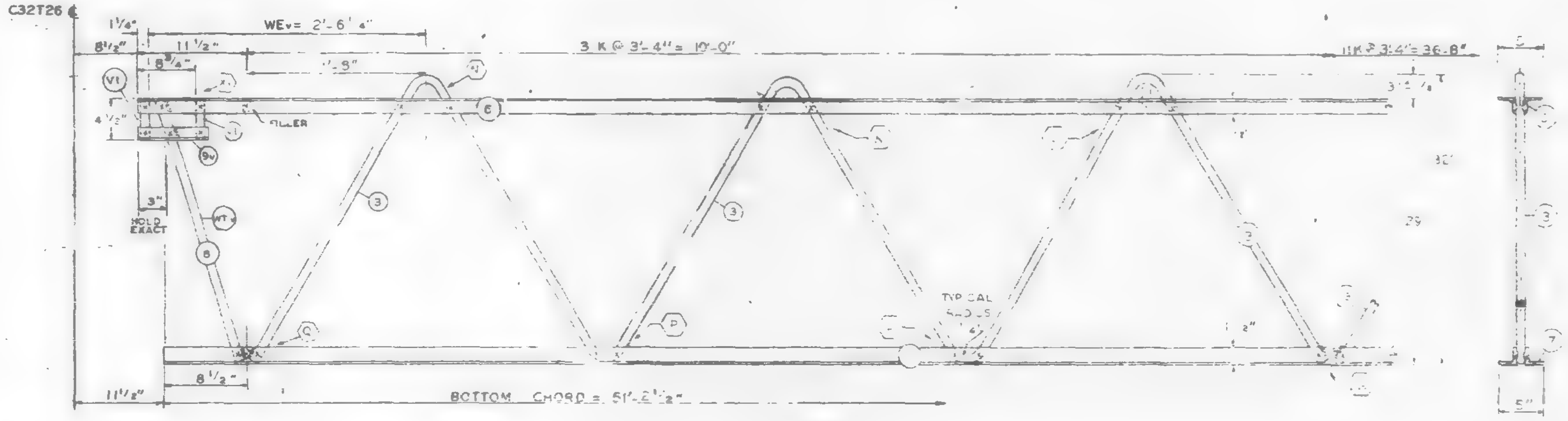
ALL PANEL POINTS RESISTANCE WELDED. (R.T.)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE
RESISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM. ie.,
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291,
ST 292 AND ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 285.
SEE SHEET ST 295 FOR V1 DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T20 L (1)
TRUSSES ARE APPLICABLE TO C32T20 R TRUSSES
WITH CHANNEL CH10 AND BEARING ANGLE 9A
PLACED ON OPP. HAND AS SHOWN.



SECTION A-A



EL END (CORE)

FABRICATION REQUIREMENTS		
	DE[illegible]	[illegible]
CAMBER AT MIDSPAN	[illegible]/16"	± 3/[illegible]
DESIGN DEPTH	29"	± 1[illegible]
PANEL ℄	3'-4"	[illegible]/4"
OVERALL LENG	58'[illegible]	± 3/[illegible]
WEB DEPTH	31 7/8"	± 1/4"

NO	DATE	REVISION	BY
2	12-12-68	SPECIAL PLATE P12	D.O.C.
1	11-7-68	AS NOTED	D.O.C.

(2) REF. DRWG.

7-AB1-19	10-4-68
7-AB1-54	11-25-68
7-AB1-53	7-22-68
7-AB2-2	1-2-68
7-AB1-24	8-15-68
7-AB8-17 & 17.2	10-4-68
SA-124	10-11-68
7-AB8-13.1	7-22-68
7-AB1-58	10-15-63

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES				REINFORCING ANGLES				SPECIAL PLATES			
(1)	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA		MK	TYPE STEEL	SIZE	LENGTH	NO.	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T20 L-5810	8	A242	2"x1½"x .25"	58'-10"	7	A242	2"x1½"x .25"	51'-2½"	3	A242	.92	8'-2½"	4 K @ 3'-4" = 40'-8"	[illegible]	.92	—	—	—	—	—	4	.92	3"	P6	A36	.42"x39	5'-2"	RA2	A242	2"x1½"x .25"	7'-7"	P12	A36	1"x[illegible]	7½"
									38	A242	.92	10'-7 3/8"	3 4K @ 3'-4" = [illegible]																						

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			MK. V9			MK. V10			CHANNEL			
	(2)	MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	D.A.	LENGTH	MK	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T20 L-5810	9	A242	2"x1½"x .25"	2	9'-5"	5'-4¼"	DS	A242	.92	2'-6¾"	CP13	A36	3"x.25"	4'-4"	A242	.92	2"	A242	.92	5'-3 7/8"	—	—	—	CH	A36	10 30	10'-0"
		9A	A242	2"x1½"x .25"	1	8'-½"																			CH	A36	10 30	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER (2 REQ'D) MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT			
	(1)	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA.	LENGTH
	C32T20 L-5810	9v	A242	2"x1½"x .25	10"	2'-6¼"	8	A242	.92	2'-5¾"	—	—	—	—	A242	.92	4'3/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—

FLOOR TRUSS DETAILS

WORLD TRADE CENTER - N.Y.C.

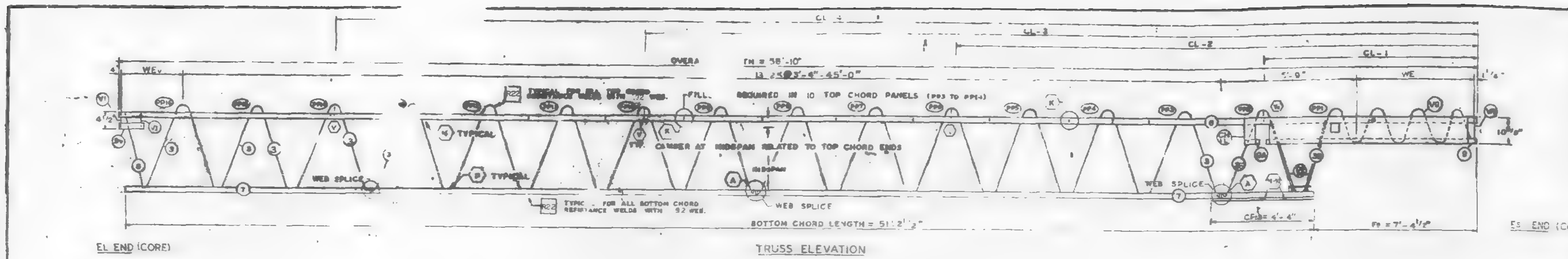
FOR

THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T20-L (1) (SEE NOTE 2) x 58'-10"

WORLD TRADE CENTER TOWERS A & B

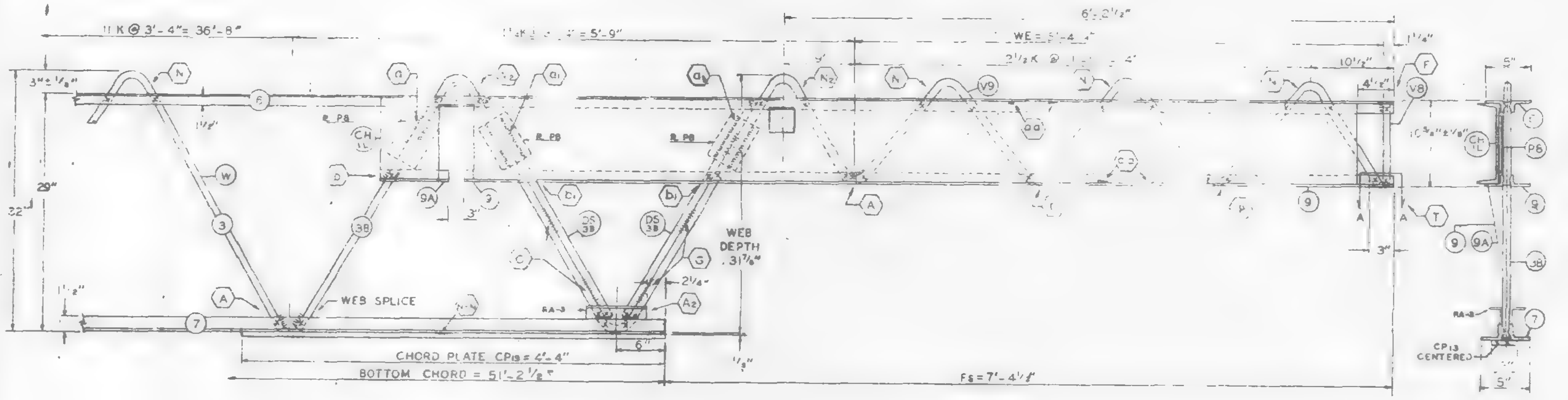
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-19	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White	DATE 1/13/69	DRAWN BY: gdc DATE OCT. 5, 1968	
APPROVED FOR FABRICATION BY FOR FABRICATOR LACLEDE STEEL CO.	DATE	CHECKED BY: T.M.CHURA DATE OCT. 10, 1968	IN CHARGE OF PROD. DEP.
DETAILED BY: A CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 22[illegible]



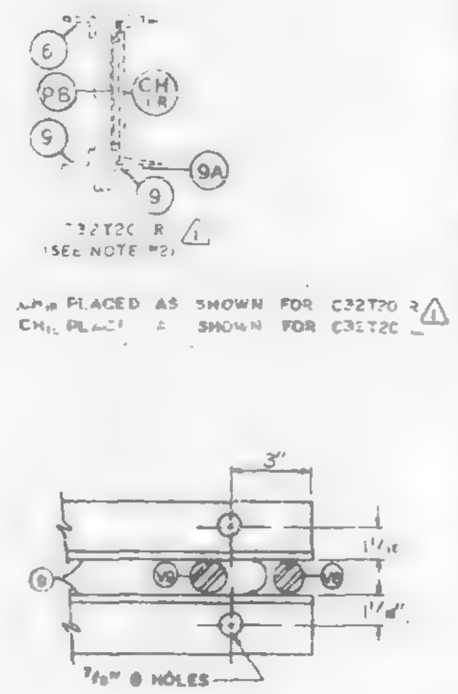
EL END (CORE)

TRUSS ELEVATION

Es END (COLUMN)

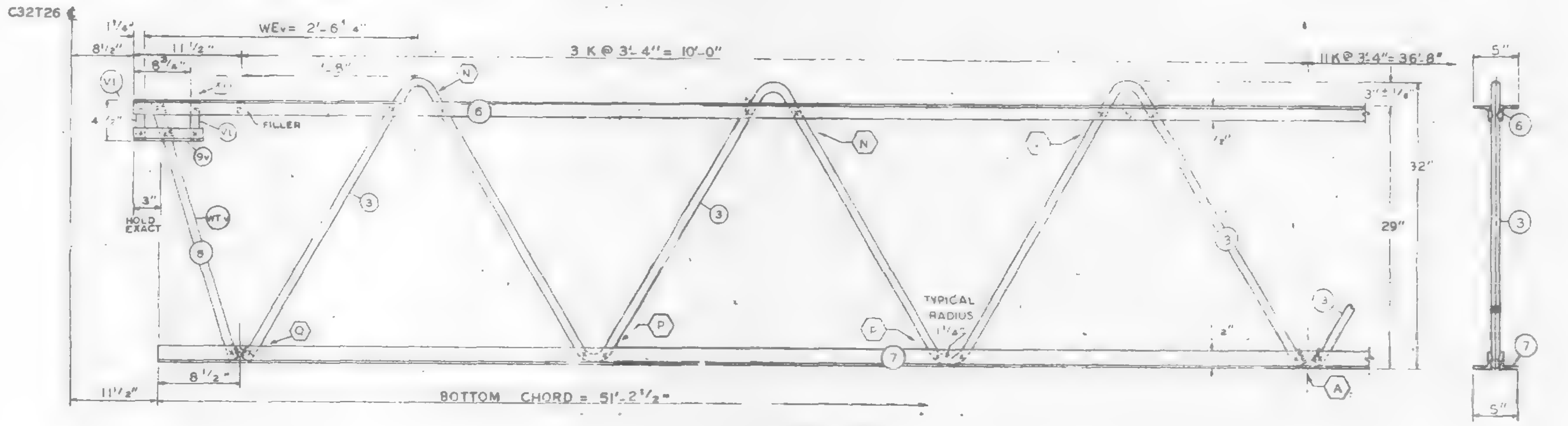


Es END (COLUMN)



SECTION A-A

C32T26



EL END (CORE)

FABRICATION REQUIRE[D]	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 11/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	[illegible] 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R0].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 292 AND ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T20 L ⚠1 TRUSSES ARE APPLICABLE TO C32T20 R TRUSSES WITH CHANNEL CHR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

CH PLACED AS SHOWN FOR C32T20 R ⚠1
CH PLACED AS SHOWN FOR C32T20 L

NO	DATE	REVISION	BY
⚠1	11-7-68	AS NOTED	G.D.C.

⚠1 REF. DRWG

7-AB1-19	10-4-68
7-AB1-54	10-4-68
7-AB1-53	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	10-4-68
SA-124	10-11-68
7-AB1-13.1	7-22-68
7-AB1-55	10-15-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10031

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA
⚠1	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	MK.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	
C32T20 L-5810	6	A242	2"x1 1/2"x .25"	58'-10"	7	A242	2"x1 1/2"x .25"	51'-2 1/2"	3	A242	.92	87'-2 1/2"	14 K@3'-4"=46'-8"	11	.92	—	—	—	—	—	4	.92	3	[illegible]	A36	3	4"x.39	5'-2"	RA-3	A242	2"x1 1/2"x.25	7 1/2"	
									3B	A242	.92	10'-7 3/8"	3 4K@3'-4" = 5'-9"																				

Es END (COLUMN END)	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL			
	⚠1	MK.	TYPE STEEL	CHORD SIZE	PCS	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
	C32T20 L-5810	9	A242	2"x1 1/2"x.25"	[illegible]	9'-5"	5'-4 1/4"	DS 3B	A242	.92	2'-6 3/4"	CP 13	A36	3"x.25"	4'-4"	A242	.92	10 1/2"	A242	.92	8'-3 7/8"	—	—	—	CH L	A36	C 3 [illegible]	10'-0"
		9A	A242	2"x1 1/2"x.25"	[illegible]	8'-1 1/2"																			CH R	A36	C 3 [illegible]	10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

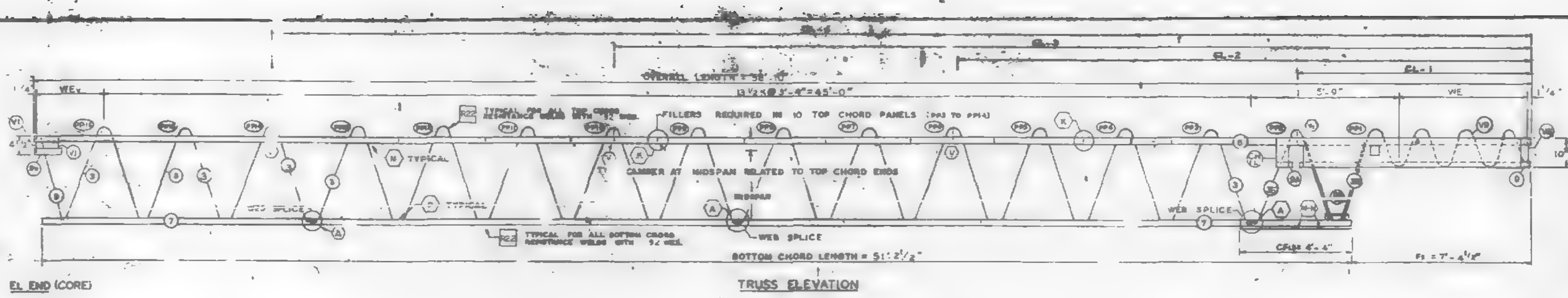
EL END (CORE END)	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "Tv" STRUT				VERTICAL "St" STRUT				END STIFFENER (2 REQ'D) MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT			
	⚠1	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH		DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T20 L-5810	9v	A242	2"x1 1/2"x .25	10"	2'-6 1/4"	8	A242	.92	2'-5 3/4"	-	—	—	—	A242	.92	4 3/8"	—	—	—	—	—	—	-	-	-	-	—	—	—	—

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T20-L ⚠1 (SEE NOTE 2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

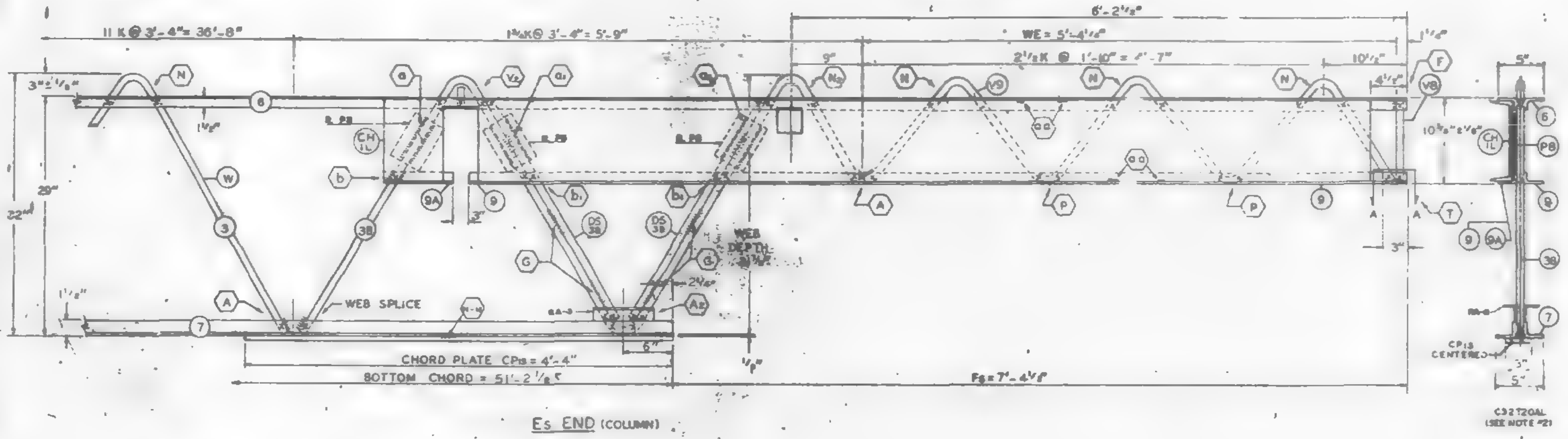
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-19	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A.	DATE 11/12/68	DRAWN BY gdc DATE OCT. 3, 1968	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE OCT. 10, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ⚠1 ST 22[illegible]



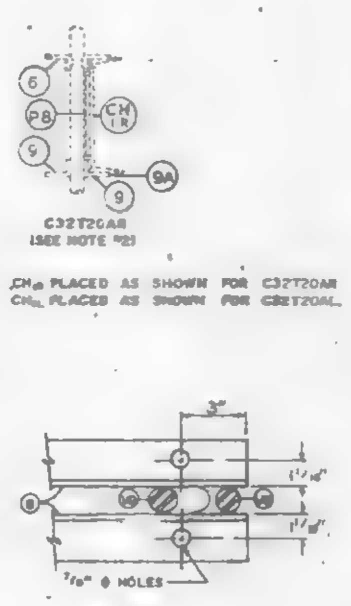
El END (CORE)

TRUSS ELEVATION

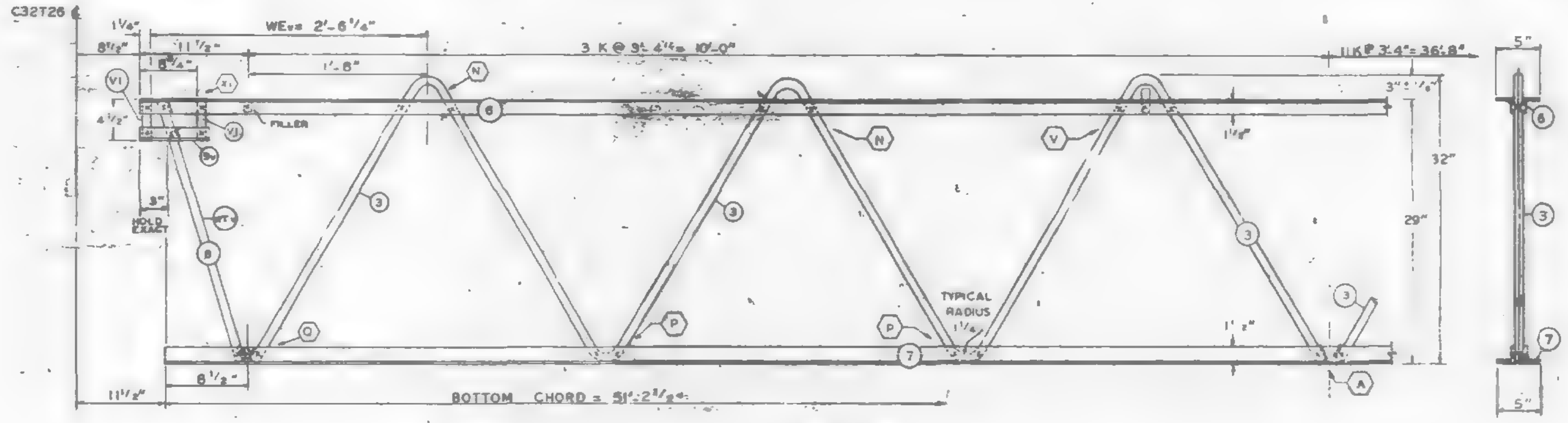
Es END (COLUMN)



Es END (COLUMN)



SECTION A-A



El END (CORE)

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 11/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL ℄	3'-4"	± 1/4"
OVERALL LENGTH	58'-0"	± 3/8"
WEB DEPTH	3'-7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R8].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 AND ST293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST407.
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
SEE SHEET ST295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T20AL TRUSSES ARE APPLICABLE TO C32T20AR TRUSSES WITH CHANNEL CH18 AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO	DATE	REVISION	BY

REF DRWG.

7-AB1-19	8-15-68
7-AB1-34	8-15-68
7-AB1-53 & 56	7-28-68
7-AB2-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	8-15-68
9A-24	8-68
7-AB1-131	7-22-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CHORD PLATE				CONNECTION FILLERS			CHANNEL PLATES					REINFORCING ANGLES (2 REQ'D)				TRUSS DATA	
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK.	TYPE STEEL	SIZE	LENGTH	NO.	DIA.	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH		
C32T20AL-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	51'-2½"	3 / 3A	A242 / A242	.92 / .92	[illegible]	[illegible]	11	.92	—	—	—	—	—	4	.92	3"	P6	A36	3	4½"x38	5½"	[illegible]	A242	2"x1½"x.25	7½"		

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER MK. V8			END STIFFENER MK. V9			END STIFFENER MK. V10			CHANNEL			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	CHANNEL SIZE	LENGTH
COLUMN END	C32T20AL-5810	9 / 9A	A242 / A242	2"x1½"x.25" / 2"x1½"x.25"	2 / 1	9'-5" / 8½"	5'-4¼"	DS	A242	.92	2'-5¾"	CP13	A36	3"x.25"	4'-4"	A242	.92	10½"	A242	.92	8'-3⅞"	—	—	—	CH / CH	A36 / A36	10C30 / 10C30	10'-0" / 10'-0"

El END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER (2 REQ'D) MK. V1			MK. V2			MK. V4			DOUBLE STRUT				DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
CORE END	C32T20AL-5810	9v	A242	2"x1½"x.25	[illegible]	2'-6¼"	8	A242	.92	2'-5¾"	—	—	—	—	A242	.92	4⅜"	—	—	—	—	—	—	—	—	—	—	—	—	—	—

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	7'-4¼"

PAINT

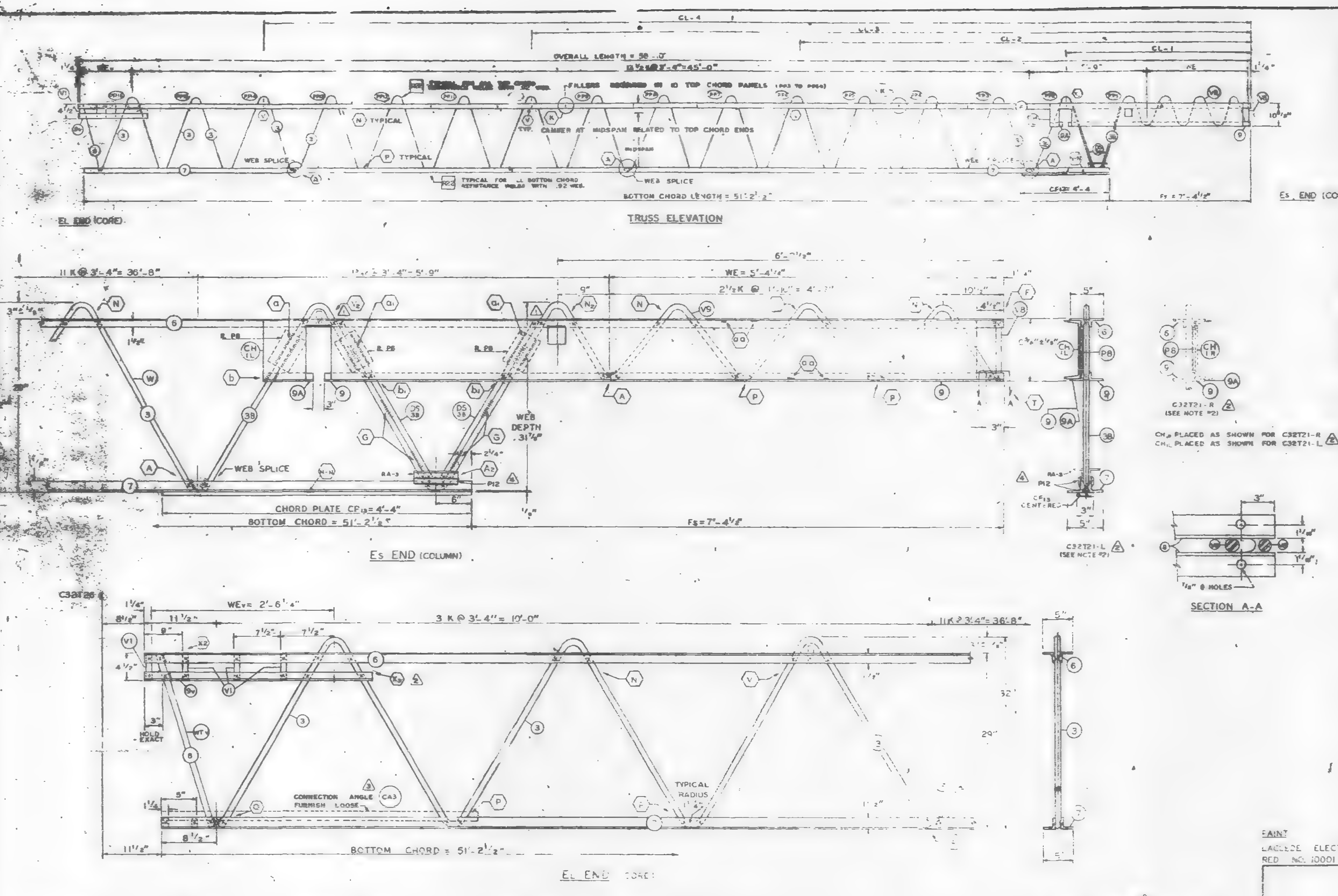
LACLEDE ELECTROCOAT
RED NO. 10001

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T20AL (SEE NOTE 2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-10	PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A.	DATE 10/29/68	DRAWN BY: gdc DATE OCT. 8, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE OCT. 10, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO. ST 220AL



FABRICATION REQUIREMENTS		
CAMBER AT MIDSPAN	[illegible]	[illegible]
SECTION DEPTH		
PANEL K	4"	[illegible]
OVERALL LENGTH	58'-10"	[illegible]
WEB DEPTH	31 7/8"	- 1/4"

ALL PANEL POINTS RESISTANCE WELDED. (X)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES [illegible]
LETTERS IN HEXAGON INDICATE WELD DETAIL [illegible]
LETTERS AND NUMBERS IN SQUARES INDICATE
RESISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM. [illegible]
ALL WELD DETAILS SHOWN ON [illegible]
ST 292 AND ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET [illegible]
CHORD PLATE DETAILS SHOWN ON SHEET ST [illegible]
SEE SHEET ST 295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T21-L [illegible]
TRUSSES ARE APPLICABLE TO C32T21-R TRUSSES [illegible]
WITH CHANNEL CH1R AND BEARING ANGLE 9A
PLACED ON OPP. HAND AS SHOWN.

NO	DATE	REVISION
4	12-28-68	AS NOTED
3	12-3-68	AS NOTED
2	11-7-68	AS NOTED
1	10-31-68	AS NOTED

REF. DRWG.

7-A81-20	10-4-68
7-A81-54	11-23-68
7-A81-58	7-22-68
7-A83-2	1-8-69
7-A83-24	8-15-68
7-A84-17 & 17.2	10-4-68
8A-124	10-11-68
7-A84-11.2	7-23-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M"	[illegible]	REINFORCING ANGLES				SPECIAL PLATES			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA	[illegible]	[illegible]	MK	TYPE STEEL	ANGLE SIZE	(2 REQ'D) LENGTH	MK	TYPE STEEL	SIZE	(2 REQ'D) LENGTH
C32T21-L-5810	6	A242	2"x1 1/2"x.25"	58'-10"	7	A242	2"x1 1/2"x.25"	51'-2 1/2"	3	A242	.92	37'-2 1/2"	14 K @ 3'-4" = 46'-8"	12	.92"	[illegible]	[illegible]	9A3	A242	2"x1 1/2"x.25	7 1/2"	P12	A36	1"x3/8"	7 1/2"
									36	A242	.92	10'-7 5/8"	3.4K @ 3'-4" = 5'-9"												

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT				CHORD PLATE				END STIFFENER									[illegible]			
		MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	SIZE	LENGTH	MK. V3 TYPE STEEL	DIA.	LENGTH	MK. V8 TYPE STEEL	DIA.	LENGTH	MK. TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
	C32T21-L-5810	9 / 9A	A242 / A242	[illegible]	2 / 1	9'-5" / 8 1/2"	5'-4 1/4"	DS	A242	.92	2'-6 3/4"	CF13	A36	3"x.25"	4'-4"	A242	.92	10 1/2"	A242	.92	8'-3 7/8"	—	—	—	CH1L / CH1R	A36 / A36	[illegible] 30 / [illegible] 30	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
[illegible]	CL-2	[illegible]	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	7'-4 1/2"

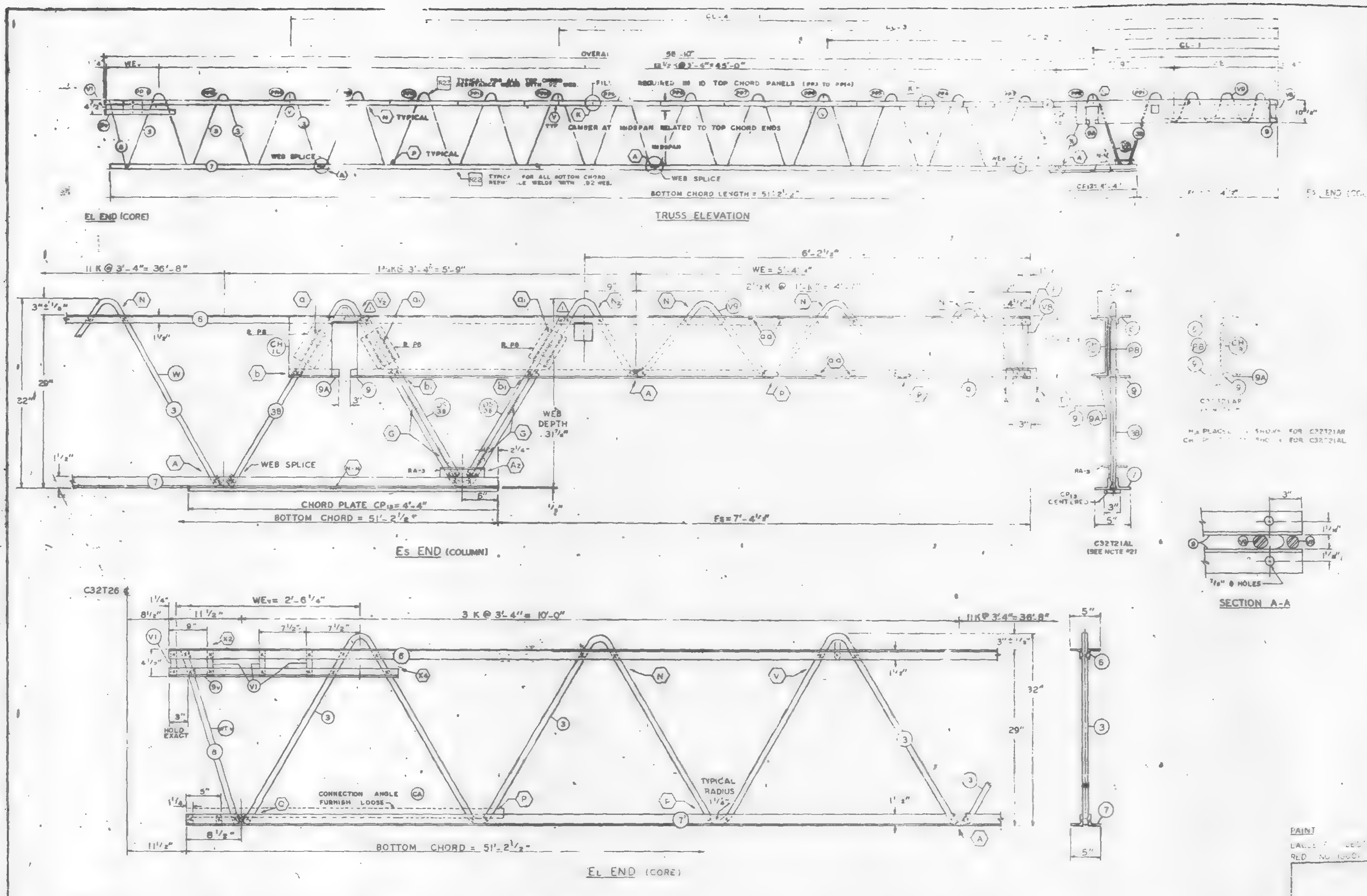
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "Sv" STRUT			END STIFFENER (4 REQ'D)									DOUBLE STRUT				DOUBLE STRUT				CONNECTION ANGLE				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
	C32T21-L-5810	9v	A242	2"x1 1/2"x.31	3'-2"	2'-6 1/4"	8	A242	.92	2'-5 3/4"	—	—	—	A242	.92	4 5/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA-3	A242	2"x1 1/2"x.31	4'-4"

FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T21-L (2) SEE NOTE #2 x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A81-20
PLATE [illegible]
APPROVED FOR FABRICATION FOR P.O.N.Y.A. James White DATE 1/13/69
DRAWN BY: [illegible] DATE OCT. 8, 1968
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE ______
CHECKED BY: T.R.CHING DATE OCT. 10, 1968
IN CHARGE [illegible]
DETAILED BY A CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET ST 221



FABRICATION REQUIRE	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	3/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4
PANEL K	3'-4"	± 1/4"
OVERALL LENGTH	58'-10"	± 3/8"
WEB DEPTH	[illegible] 7/8"	± 1/4"

... RESISTANCE WELDED. (x).
... AT SHADED AREAS
... AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A).
... IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [RD].
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292 AND ST293.
CHANNEL DETAILS SHOWN ON SHEET ST 407.
... PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR V1 DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T21AL TRUSSES ARE APPLICABLE TO C32T21AR TRUSSES WITH CHANNEL CH1R AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN.

NO	DATE	REVISION	BY
1	10-31-68	AS NOTED	LWH

REF. DRWG.

7-AB1-20	8-15-68
7-AB1-34	8-15-68
7-AB1-55 & 56	7-22-68
7-AB3-2	1-3-68
7-AB3-24	8-15-68
7-AB4-17 & 17.2	8-15-68
SA-124	8-1-68
7-AB1-11.2	7-22-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO.	DIA.	"M" C/C HOLES	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	CONNECTION FILLERS NO	DIA	LENGTH	CHANNEL PLATES MK	TYPE STEEL	PCS.	SIZE	LENGTH	REINFORCING ANGLES (2 REQ'D) MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T21AL-5810	6	A242	2"x1½"x.25"	58'-10"	7	A242	2"x1½"x.25"	51'-2½"	3 38	A242 A242	.92 .92	37'-2½" 10'-7 3/8"	14 K @ 3'-4" = 46'-8" 3½ K @ 3'-4" = [illegible]	12	.92	—	—	—	—	—	4	.92	3"	PB	A36	3	4.2"x39	5"	RA8	A242	2"x1½"x.25"	1'-1½"	

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (2 REQ'D)	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA	LENGTH	MK. V10 TYPE STEEL	DIA	LENGTH	CHANNEL MK	TYPE STEEL	CHANNEL SIZE	LENGTH
C32T21AL-5810	9 9A	A242 A242	2"x1½"x.25" 2"x1½"x.25"	2 1	1'-5" 8½"	5'-4¼"	DS	A242	.92	2'-6¾"	CP13	A36	3"x.25"	4'-4"	A242	.92	10½"	A242	.92	8'-3 7/8"	—	—	—	CH1L CH1R	A36 A36	C10x30 C10x30	10'-0" 10'-0"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-[illegible]"	22'-10½"	36'-2½"	49'-6½"	7'-4½"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER (4 REQ'D) MK. V1 TYPE STEEL	DIA.	LEN	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	CONNECTION ANGLE NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
C32T21AL-5810	9v	A242	2"x1½"x.31	8'-2"	2'-6¼"	8	A242	.92	2'-5⅜"	—	—	—	—	A242	[illegible]	4'-3"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	CA	A242	2"x1½"x.31	4'-4"

PAINT
[illegible]
RED NO. [illegible]

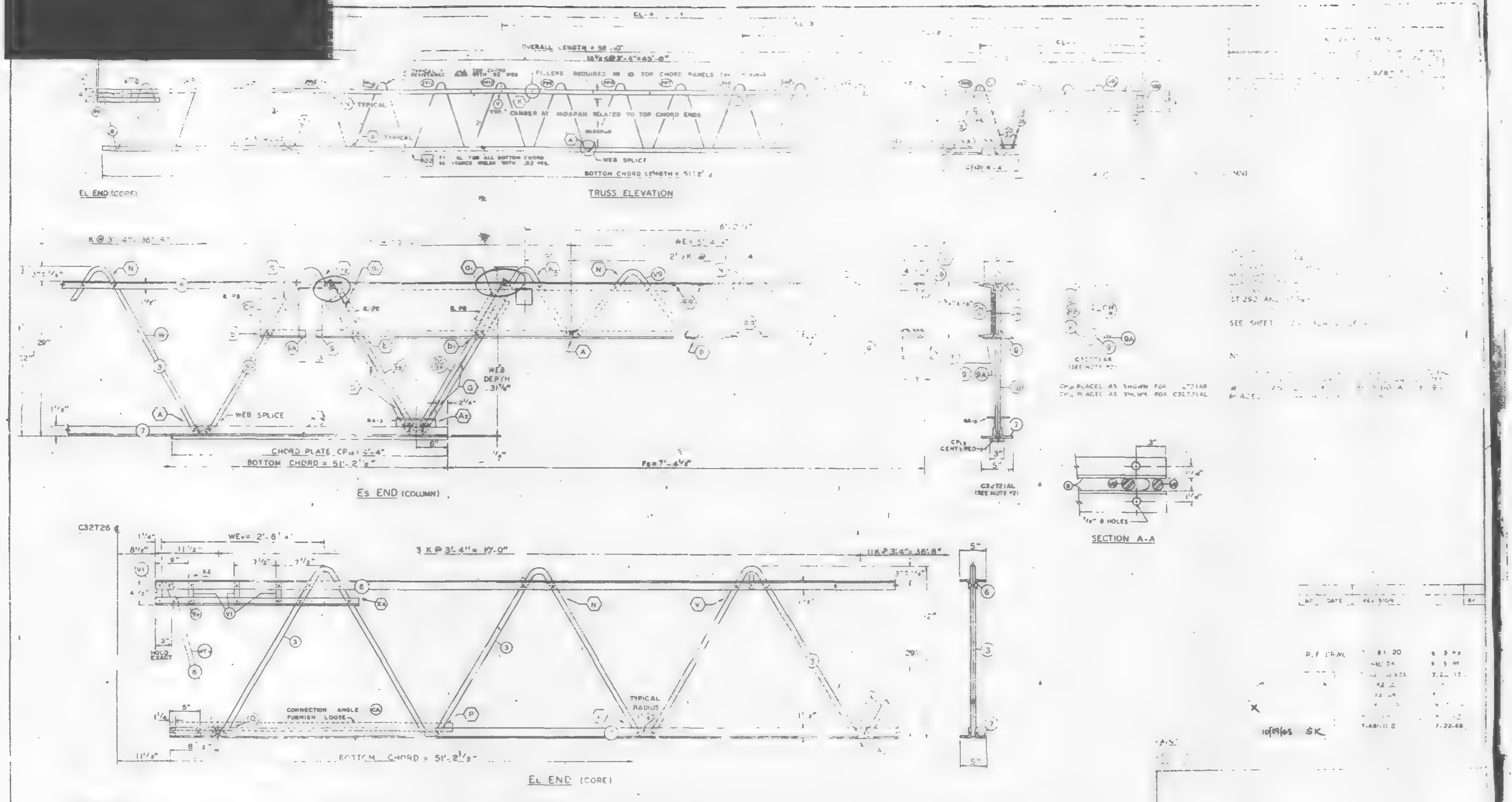
FLOOR TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T21AL (SEE NOTE #2) x 58'-10"
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY [illegible] STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS

APPROVED FOR FABRICATION BY [illegible] DATE 11/7/68	DESIGN DRAWING NO. 7-AB1-20	PLATE [illegible]
APPROVED FOR FABRICATION BY ... FOR FABRICATOR DATE	DRAWN BY gdc DATE OCT. [illegible] 1968	
	CHECKED BY T.M. CHURA DATE OCT. 10 1968	IN CHARGE OF PROD. DEPT.
DETAILED BY A. CARL WEBER	FABRICATION CONT. NO. WTC 221	SHEET NO. ST 22[illegible]

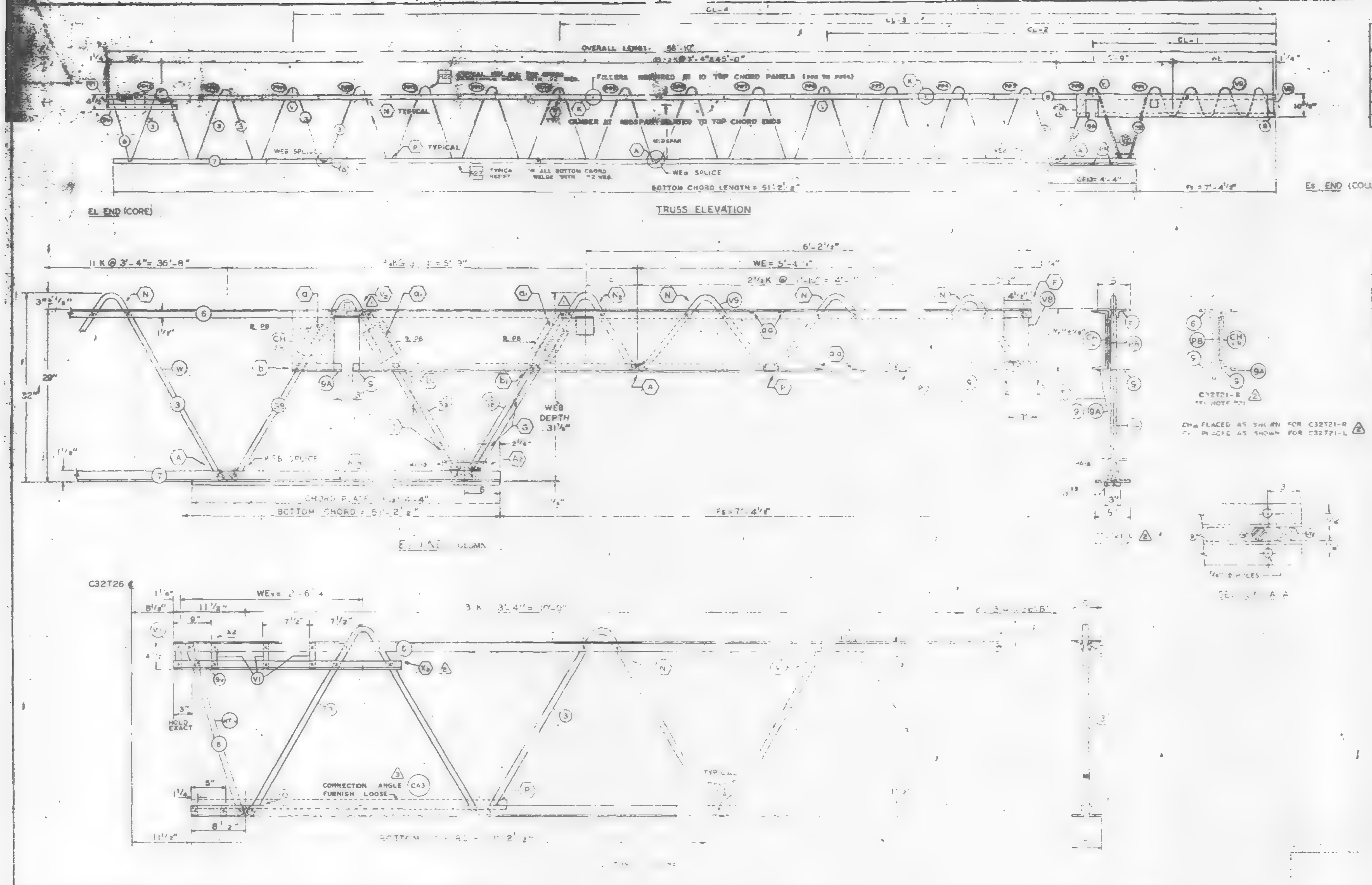
[redacted]



TRUSS DESIGNATION		MAIN WEB "W"					FILLER		"M" HOLES	CHORD
		MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA.		
C32T21AL-58'0"	[illegible]	3	A242	.92	87'-2½"	14 K = 3'-4" = 46'-8"	12	.92	—	[illegible]
		3A	A242	.92	10'-7⅝"	3 4K @ 3'-4" = 3'-9"				

Es END	TRUSS DESIGNATION	[illegible]	CHORD PLATE			END STIFFENER					
						MK. V8			MK. V9		
			TYPE STEEL	SIZE	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
	C32T21AL-58'0"	[illegible]	A36	3"x.25"	4'-4"	A242	.92	10½"	A242	.92	8'-3⅞"

EL CORE END	TRUSS DESIGNATION	[illegible]	VERTICAL ST. STRUT			END STIFFENER (4 REQ'D)									DOUBLE STRUT	SINGLE STRUT	CONNECTION ANGLE				
						MK. V1			MK. V2			MK. V4									
			TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH			NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
	C32T21AL-58'0"	9A A242 2"x1½"x.31 3'-2" [illegible]	—	—	—	A242	[illegible]	4'-8"	—	—	—	—	—	—	—	—	2	CA	A242	2"x1½"x.31	4'-4"



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 3/8"	± [illegible]
DESIGN DEPTH	29"	± [illegible]
PANEL K	3'-4"	± [illegible]
OVERALL LENGTH	58 [illegible]	± [illegible]
WEB DEPTH	31	± [illegible]

ALL PANEL POINTS RESISTANCE WELDED. (x).
ARC WELDS INDICATED BY SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e., (A).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., [illegible].
ALL WELD DETAILS SHOWN ON SHEETS ST 290, ST 291, ST 292 AND ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T21-L TRUSSES ARE APPLICABLE TO C32T21-R TRUSSES WITH CHANNEL CH18 AND BEARING ANGLE 9A PLACED ON OPP HAND AS SHOWN.

NO.	DATE	REVISION	BY
3	12-3-68	AS NOTED	G.D.C.
2	11-7-68	AS NOTED	G.D.C.
1	10-31-68	AS NOTED	L.W.H.

7-481-20 — 12-4-68
7-481-34 — 11-25-68
7-454-112 — 7-22-68

TRUSS DESIGNATION	MK	TYPE STEEL	CHORD SIZE (TWO ANGLES)	LENGTH				LENGTH	MK	TYPE STEEL	DIA	LENGTH		
(2)									3	A242	.92	[illegible]	[illegible]	4'-48'-6"
C32T21-L-5810	6	A242	2"x1 1/2"x.25"	58' [illegible]	A242	[illegible]	[illegible]	51'-2 [illegible]	2B	A242	.9"	[illegible]	[illegible]	12

COLUMN END

Es END TRUSS DESIGNATION	MK	TYPE STEEL	BEARING ANGLES CHORD SIZE	LENGTH	WE		CHORD PLATE TYPE STEEL	SIZE	LENGTH	STIFFENER
(2)										
C32T21-L-58[illegible]	9 / 9A	A242 / A242	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3"x.25"	4'-4"	[illegible]

CORE END

EL END TRUSS DESIGNATION	MK	TYPE STEEL	BEARING ANGLES CHORD SIZE	LENGTH	WEv	DIAGONAL ST. STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL ST. STRUT MK	TYPE STEEL	DIA.	LENGTH	STIFFENER (4 REQ'D) TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA
(2)																		
C32T21-L-580	9v	A242	2"x1 1/2"x.3	3'-2"	2'-6 [illegible]	8	A242	.92	[illegible]	–	–	–	–	A242	.92	4'-8"	—	—

CONNECTION ANGLE

NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
2	CA-3 (3)	A242	2"x1 1/2"x.31	4'-4"

James White [signature] FOR PONYA 12/9/68

APPROVED FOR FABRICATION ON [illegible] BY FOR FABRICATOR

DETAILED BY [illegible]

DATE OCT. [illegible] 1968

CHECKED BY [illegible]

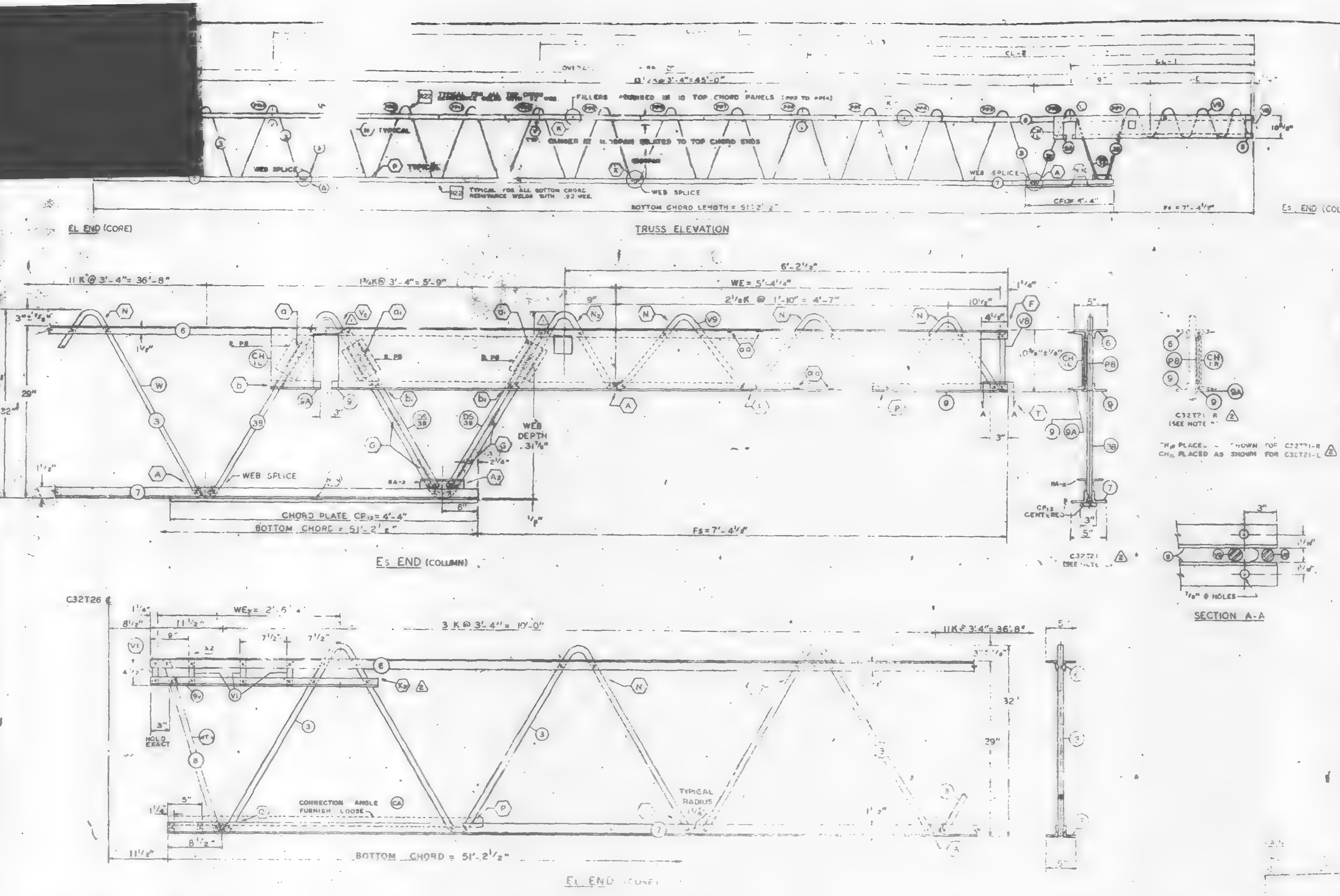
DATE OCT. [illegible] 1968

FABRICATION CONT. NO. W.T.C. 221

IN CHARGE OF PROJ. DIV.

SHEET ST 221

[redacted]



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 3/8"	± 3/8"
DESIGN DEPTH	29"	± 1/8"
PANEL	3'-4"	1/8"
OVERALL LENGTH	5[illegible]	± 3/8"
WEB DEPTH	[illegible]"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED. (±).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R0]
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST 292 AND. ST 293.
ALL CHANNEL DETAILS SHOWN ON SHEET ST 407.
CHORD PLATE DETAILS SHOWN ON SHEET ST 283.
SEE SHEET ST 295 FOR VI DETAIL.

NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T21-L TRUSSES ARE APPLICABLE TO C32T21-R TRUSSES WITH CHANNEL CHR AND BEARING ANGLE 9A PLACED ON OPP. HAND AS SHOWN. (2)

NO	DATE	REVISION	BY
2	11-7-68	AS NOTED	G.D.C.
1	10-31-68	AS NOTED	L.W.H.

(2) REF. DRWG.

7-AB1-20	10-4-68
7-AB1-54	10-4-68
7-AB1-53	7-22-68
[illegible]-2	1-3-68
[illegible]-24	8-15-68
[illegible]-84 [illegible] 6172	10-4-68
SA-124	10-11-68
7-AB4-162	7-22-68

TRUSS DESIGNATION (2)	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	DIA.	"M" HOLES	CHANNEL PLATES TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL
C32T21-L-5810	6	A242	2"x1 1/2"x.25"	58'-10"	7	A242	[illegible]	51'-2 1/2"	3	A242	.92	47'-2 1/2"	[illegible]	12	.92	—	A36	4"x39	5'-2"	9AB	A242
									3B	A242	.92	10'-7 3/8"	[illegible]								

COLUMN END

ES END TRUSS DESIGNATION (2)	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	CHANNEL LENGTH
C32T21-L-5810	9 / 9A	A242 / A242	[illegible]	[illegible]	CP 13	A36	3"x.25"	4'-4"	A242	.92	10 1/2"	A242	.92	8'-3 7/8"	10'-0" / 10'-0"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 [illegible]"	36'-[illegible]"	49'-8 1/2"	7'-4 1/2"

CORE END

EL END TRUSS DESIGNATION (2)	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER (4 REQ'D) MK. V1 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT	DOUBLE STRUT	CONNECTION ANGLE NO	MK	TYPE STEEL	ANGLE SIZE	LENGTH
C32T21-L-5810	8	A242	2"x1 1/2"x.31	3'-2"	2'-6 [illegible]"	8	A242	.92	2'-5 3/8"	—	—	—	—	A242	.[illegible]	4 5/8"	—	—	2	CA	A242	2"x1 1/8"x.31	4'-4"

FLOOR TRUSS DETAILS

FOR

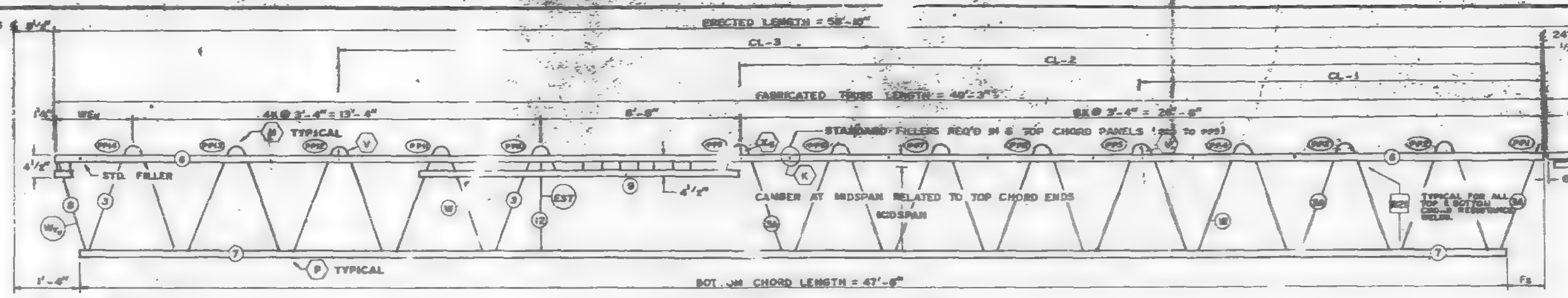
[illegible] OF NEW YORK [illegible]

C32T21-L (2) [illegible] 58

[illegible] TRADE CENTER TOWERS [illegible]

[illegible] STEEL COMPANY

FABRICATED AT [illegible] NOIS	DESIGN DRAWING NO. 7-AB1-20	PLATE	
APPROVED FOR FABRICATION FOR P.O.N.Y.A	DATE [illegible]	DRAWN BY [illegible] DATE OCT. 3, 1968	
APPROVED FOR FABRICATION FOR FABRICATOR	DATE	CHECKED BY [illegible] CHURA DATE OCT 13, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. [illegible] WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 221



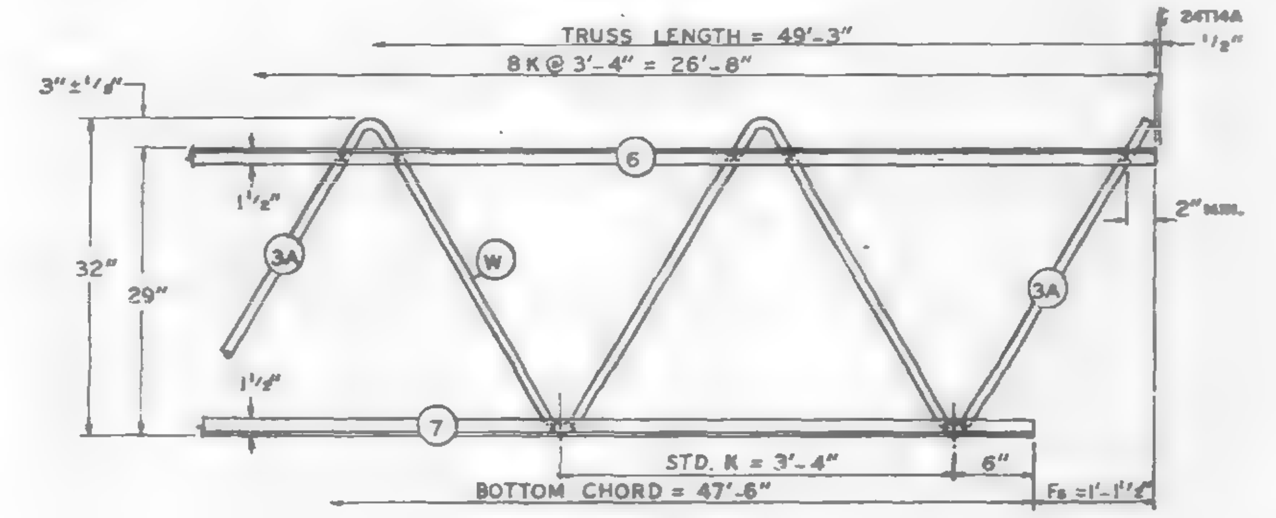
E_L END (CORE) — TRUSS ELEVATION — Es END (COLUMN)

FABRICATION REQUIREMENTS

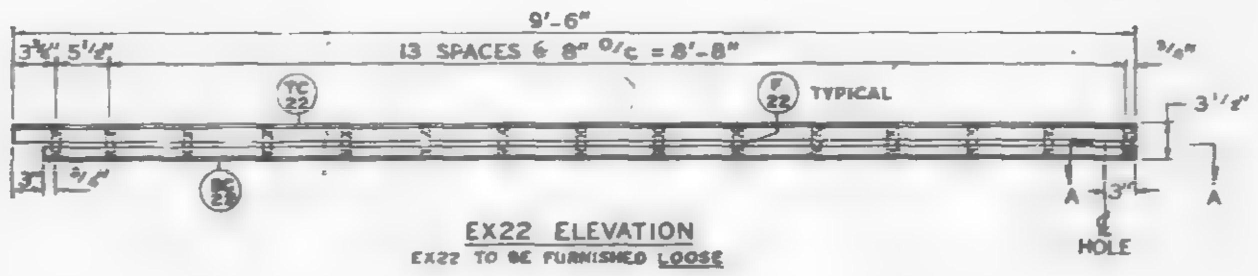
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	13/16"	± 3 8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-	± 1/4"
WEB DEPTH	31	± 1/4"
OVERALL TRUSS LENGTH	49'-3"	± 3/8
*OVERALL EXT. END LENGTH	9'-6"	4"

*EXT. END MK. EX22 TO BE FURNISHED LOOSE.

ALL PANEL POINTS RESISTANCE WELDED. (X).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEET ST 290, ST 291, ST 292 & ST 293.
LETTERS IN HEXAGON INDICATE WELD DETAIL. ie., (P).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie., R21.



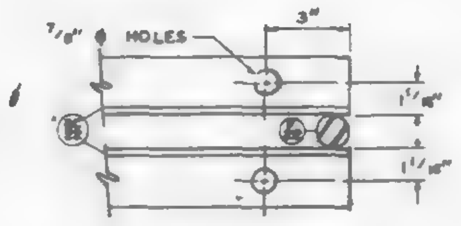
Es END (COLUMN)



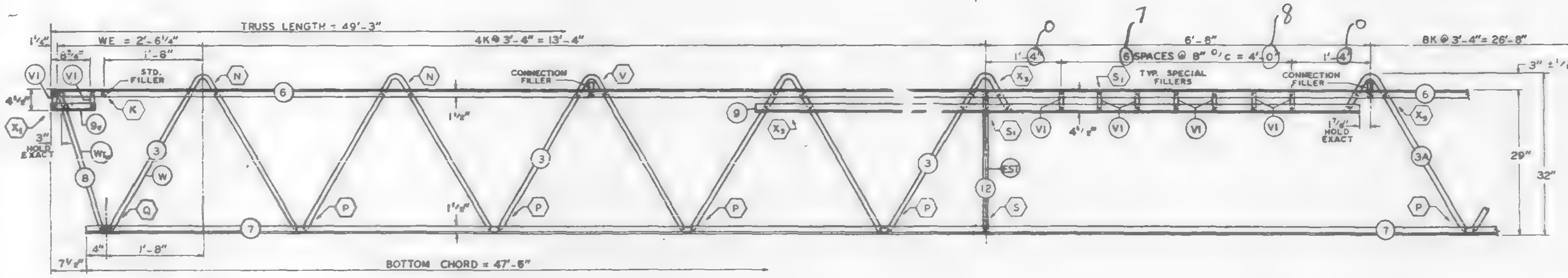
EX22 ELEVATION

EX22 TO BE FURNISHED LOOSE

LIST OF MATERIALS FOR EX22						
MK.	PCS.	TYPE STEEL	DIA.	ANGLE SIZE	LENGTH	TOLERANCE
TC22	2	A242	—	2"x1 1/2"x.25"	9'-6"	+1/8" -0"
BC22	2	A242	—	2"x1 1/2"x.25"	9'-3"	+1/4" -0"
F22	15	A242	.98	—	3 3/8"	± 1/8"



SECTION A-A



E_L END (CORE)

REF. DRWG.

7-AB1-21	10-4-68
7-AB4-10	10-4-68
7-AB1-54	10-4-68
7-AB1-1	4-1-68
7-AB3-34 & 35	10-4-68
7-AB4-57 & 58	10-4-68
SA-124	10-11-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					STD. FILLER		"M" C/C HOLE	BEARING ANGLES				VERTICAL "EST" STRUT					SPECIAL FILLER MK. VI			CONNECTION FILLER		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	PCS.	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH (7 REQ'D)	TYPE STEEL	DIA.	LENGTH (3 REQ'D)
C32T22-493	6	A242	2"x1 1/2"x.25"	49'-3"	7	A242	2"x1 1/2"x.25"	47'-6"	3 3A	A242 A242	[illegible]	[illegible]	[illegible]	7	.98	—	9	A242	2"x1 1/2"x.25"	10'-5 1/8"	12	A242	1	.98	2'-4 7/8"	A242	.98	4 3/8"	A242	.98	3"

COLUMN END	Es END	TRUSS DESIGNATION
		C32T22-493

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS			
CL-1	CL-2	CL-3	Fs
13'-3 1/2"	26'-7 1/2"	39'-11 1/2"	1'-1 1/2"

SKILLING - HELLE CHRISTIANSEN - ROBERTSON Structural & Civil Engineers

CORE END	E_L END	TRUSS DESIGNATION	BEARING ANGLES				WE_V	END STIFFENER MK. VI			WEB "WT_V"				
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	PCS.	DIA.	LENGTH
		C32T22-493	9v	A242	2"x1 1/2"x.25"	10"	2'-6 1/4"	A242	.98	4 3/8"	8	A242	1	.98	2'-5 3/4"

NO.	DATE	REVISION	BY

STEEL TRUSS DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

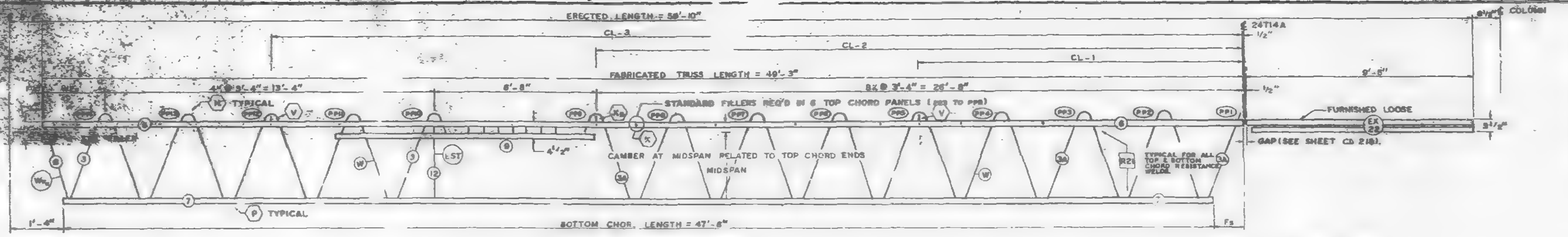
FLOOR TRUSS C32T22 x 49'-3" LONG
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-21	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.	DATE	DRAWN BY g.d.c. DATE NOV. 13, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE NOV. 13, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER (LACLEDE STEEL CO.)		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 222

ERECTED LENGTH = 50'-10"

FABRICATED TRUSS LENGTH = 49'-3"

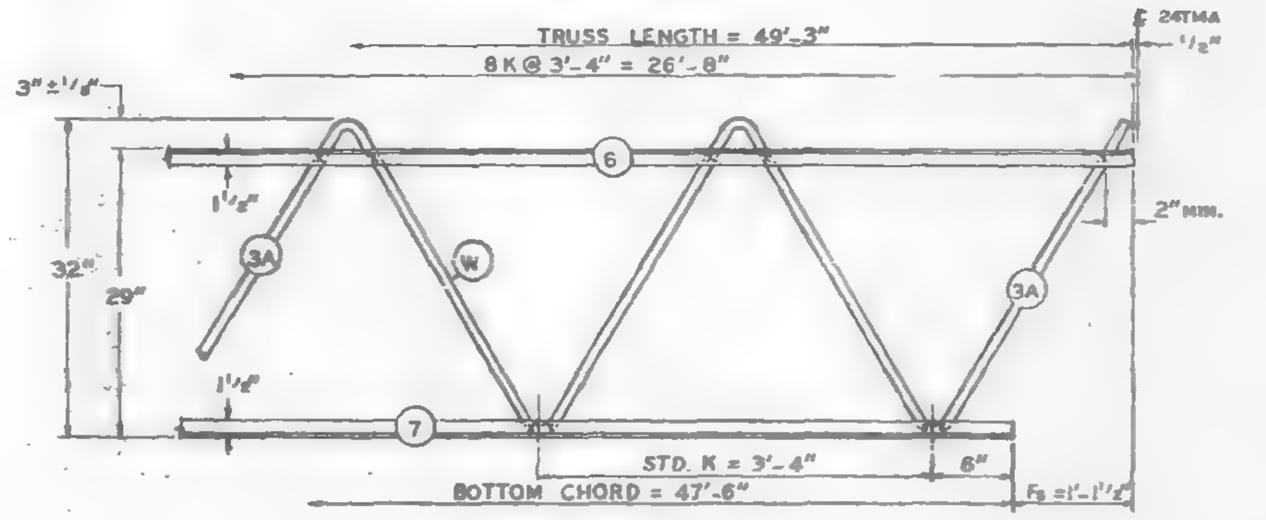


EL END (CORE) TRUSS ELEVATION Es END (COLUMN)

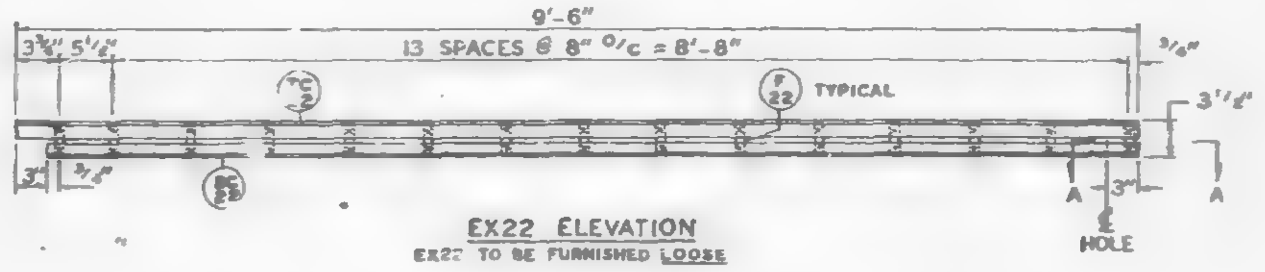
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	13/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
WEB DEPTH	31 7/8"	± 1/4"
*OVERALL TRUSS LENGTH	49'-3"	± 3/8"
*OVERALL EXT. END LENGTH	9'	± 1/4"

*EXT. END MK. EX22 TO BE FURNISHED LOOSE.

ALL PANEL POINTS RESISTANCE WELDED. (X).
ARC WELDS INDICATED . SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. (MMM).
ALL WELD DETAILS SHOWN ON SHEET ST 290, ST 291, ST 292 & ST 293.
LETTERS IN HEXAGON INDICATE WELD DETAIL. ie., (P).
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie., [R21].

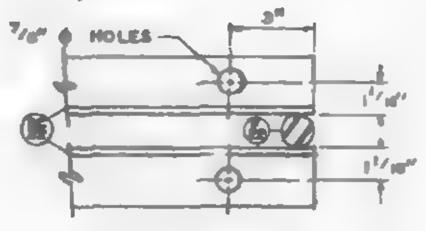


Es END (COLUMN)

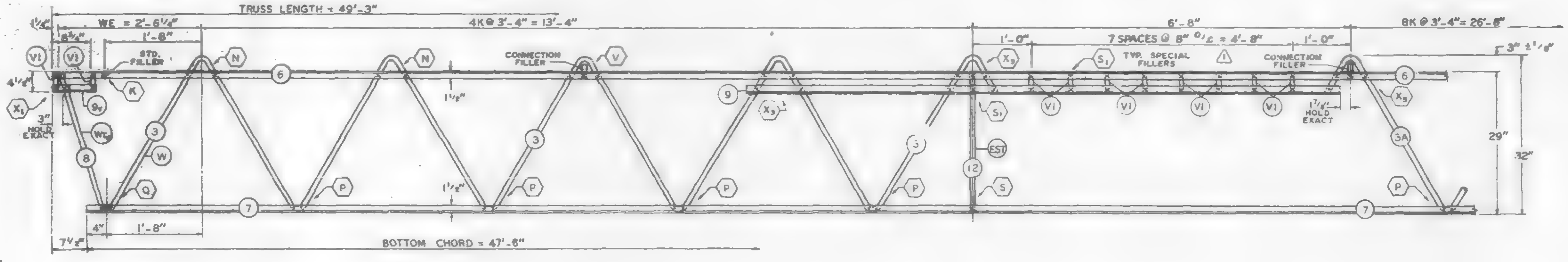


EX22 ELEVATION
EX22 TO BE FURNISHED LOOSE

LIST OF MATERIALS FOR EX22						
MK.	PCS.	TYPE STEEL	DIA.	ANGLE SIZE	LENGTH	TOLERANCE
TC22	2	A242	——	2"x1½"x.25"	9'-6"	+¼" -0"
BC22	2	A242	——	2"x1½"x.25"	9'-3"	+¼" -0"
F22	15	A242	.98	——	3⅜"	±⅛"



SECTION A-A



EL END (CORE)

REF. DRWG.

7-AB1-21	10-4-68
7-AB4-10	10-4-68
7-AB1-54	11-25-68
7-AB1-1	4-1-68
7-AB3-34 & 35	10-4-68
7-AB4-57 & 59	10-4-68
SA-124	10-11-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	NO. OF K
C32T22-493	6	A242	2"x1½"x.25"	49'-3"	7	A242	2"x1½"x.25"	47'-6"	3 / 3A	A242 / A242	.98 / .98	[illegible]	4½K@3'-4"=15'-0" / 8K@3'-4"=26'-8"

TRUSS DESIGNATION	STD. FILLER		"M" C/C HOLE	BEARING ANGLES				VERTICAL "EST" STRUT					SPECIAL FILLER ⚠ MK. VI			CONNECTION FILLER		
	NO	DIA		MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	PCS	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH (8 REQ'D)	TYPE STEEL	DIA	LENGTH (3 REQ'D)
C32T22-493	7	.98	——	9	A242	2"x1½"x.25"	10'-5⅞"	12	A242	1	.98	2'-4⅞"	A242	.98	4⅜"	A242	.98	3"

COLUMN END

Es END	TRUSS DESIGNATION
	C32T22-493

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS			
CL-1	CL-2	CL-3	Fs
13'-3½"	26'-7½"	39'-11½"	1'-1½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEV	END STIFFENER MK. VI			WEB "WTV"				
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	PCS.	DIA.	LENGTH
	C32T22-493	9v	A242	2"x1½"x.25"	10"	2'-6¼"	A242	.98	4⅜"	8	A242	1	.98	2'-5¾"

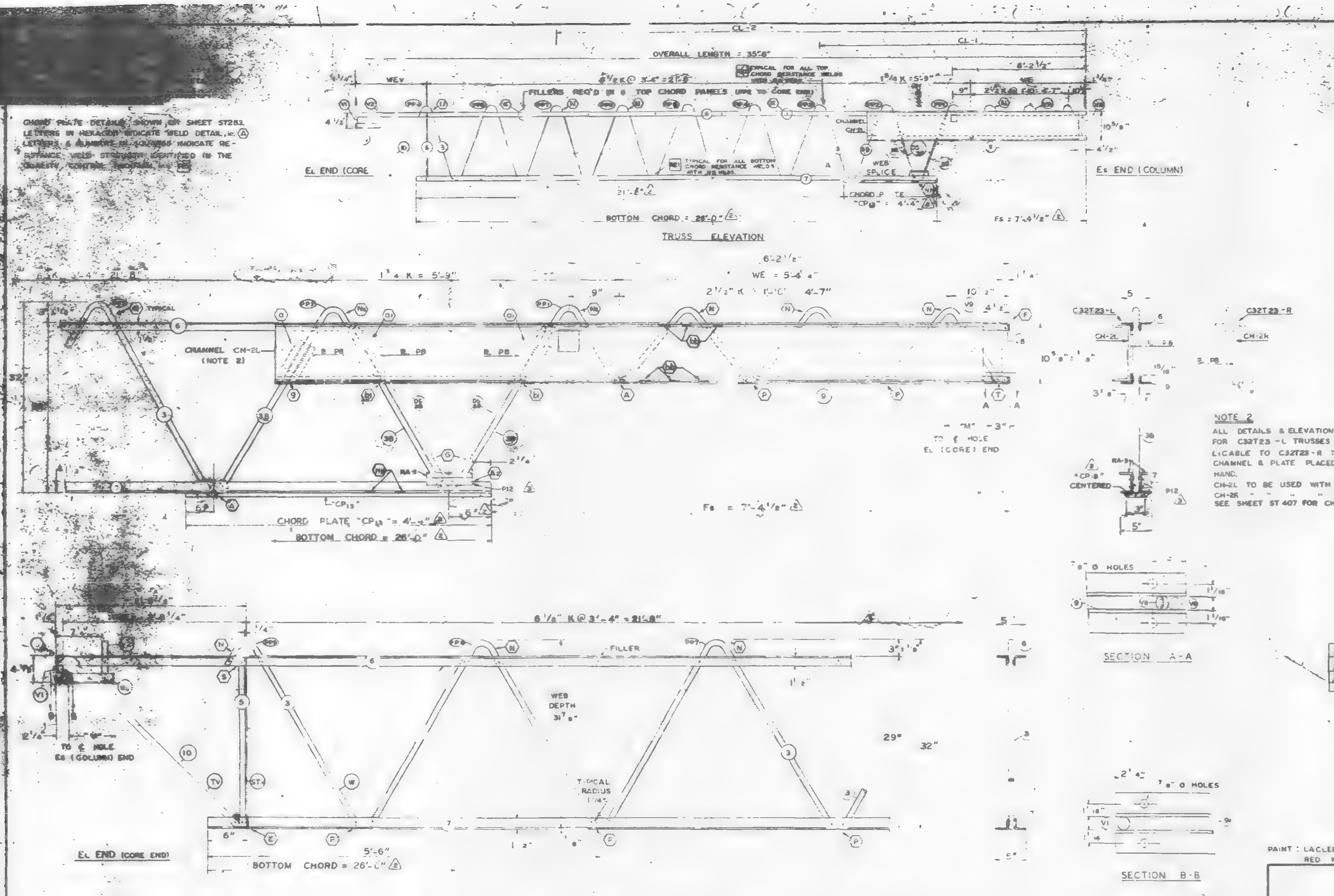
NO	DATE	REVISION	BY
⚠1	12-9-68	SPECIAL FILLER, REF. DRWG.	G.D.C.

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T22 x 49'-3" LONG
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-21	PLATE
APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A.	DATE 12/12/68	DRAWN BY: g.d.c. DATE NOV. 13, 1968	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE	CHECKED BY: T.M.CHURA DATE NOV. 13, 1968	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: A. CARL WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO. ST 222



FABRICATION REQUIREMENTS		
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
[illegible] "K"	4"	±1
OVERALL LENGTH	35'-8"	±3 [illegible]
WEB DEPTH	31 7/8"	±1/4"
CL DIMENSIONS	—	±3/8"

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF "K" SEE NOTE	FILLER NO.	DIA.	"M" C/C HOLE	CONNECTION FILLERS NO.	DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	REINF. ANGLE (2 REQ'D) MK.	TYPE STEEL	SIZE	LGTH.	SPEC. PLATES (2 REQ'D) MK.	TYPE STEEL	SIZE	LGTH.
C32T23-L	6	A242	2"x1 1/2"x.25	35'-8"	7	A242	2"x1 1/2"x.25	26'-0"	3 3B	A242 A242	.98 .98	40'-11 1/4" 10'-7 5/8"	6 1/2 K @ 3'-4" = 21'-8" 1 3/4 K = 5'-9"	6	.98	35'-2 3/4"	—	—	—	—	—	—	—	P6	A36	3	4"x2x39	5 1/2"	RA3	[illegible]	2"x1 1/2"x.25	7 1/2"	P12	A36	1"x3/8"	7 1/2"

COLUMN END	Es END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS.	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL (NOTE NO. 2) MK.	TYPE STEEL	CHANNEL SIZE	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH
	C32T23-L	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5'-4 1/4"	DS 38	A242	.98	2'-6 [illegible]	2	A242	.98	10 1/2"	A242	.98	6'-3 7/8"	—	—	—	[illegible]	[illegible]	[illegible]	[illegible]	CP13	A36	3"x.25	4'-4"

CHECK DIMENSION FOR FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/2"	—	—	7'-4 1/2"

CORE END	EL END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS
	C32T23-L	9V	A242	2"x1 1/2"x.25	10"	2'-8 1/4"	10	A242	.98	3'-6 1/4"	5	A242	.98	2'-4 7/8"	A242	98	4 3/8"	A242	98	7 3/8"	—	—	—	—	—	—	—	—	—	—	—	—

NO.	DATE	REVISION	BY
3	12-26-68	AS NOTED	[illegible]
2	10-18-68	AS NOTED	[illegible]
1	10-4-68	GENERAL	[illegible]

3 REF. DRWG.

7-A81-22	10-4-68
7-A81-52	2-15-68
7-A81-53	7-22-68
7-A81-54	11-13-68
7-A84-53-56	10-4-68
SA-124	10-[illegible]-68

PAINT: LACLEDE ELECTROCOAT RED NO 10001

STEEL TRUSS DETAILS

WORLD TRADE CENTER - N.Y.C.

FOR

THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T23-L 35'-8" OVERALL (SEE NOTE NO. 2)

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY

[illegible] AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-A81-22

PLATE

APPROVED FOR FABRICATION James White FOR P.O.N.Y.A. DATE 1/13/69

DRAWN BY: [illegible] DATE SEPT. 6, 1968

APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE

CHECKED BY: T.H. CHURA DATE SEPT. 9, 1968

IN CHARGE OF PROD. DEV.

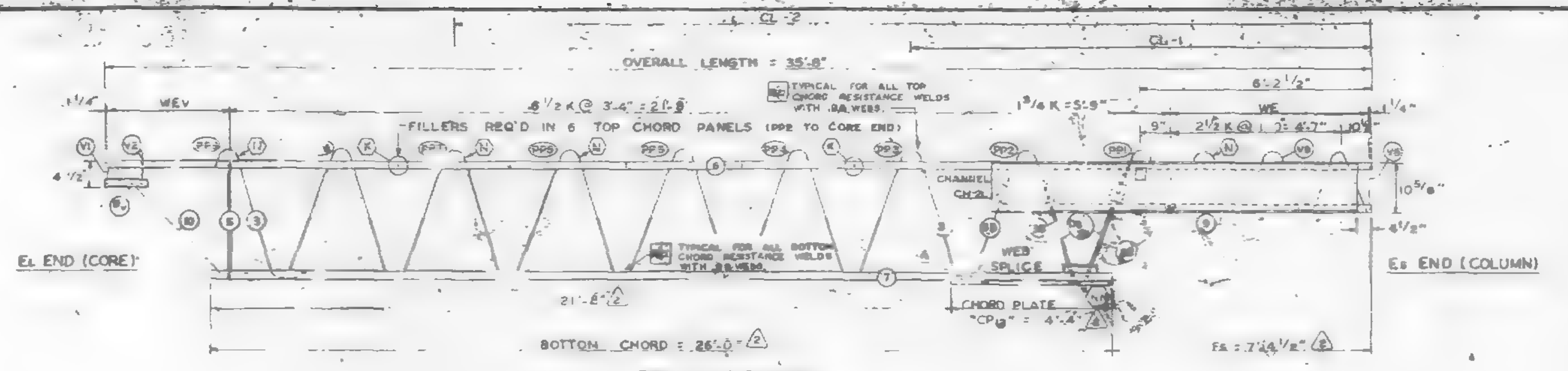
DETAILED BY: A. CARL WEBER

FABRICATION CONT. NO W.T.C. 221

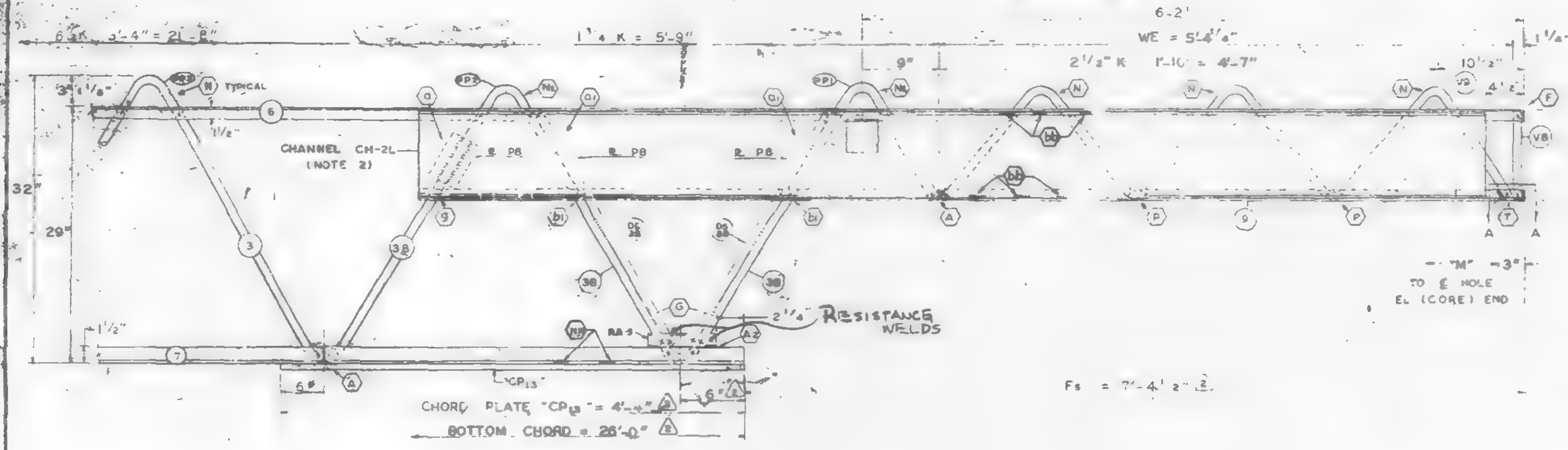
SHEET NO. ST 223-L

ALL PANEL POINTS RESISTANCE WELDED (X).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, 291, 292, 293 & ST283.
SEE SHEET ST295 FOR V1 & V2

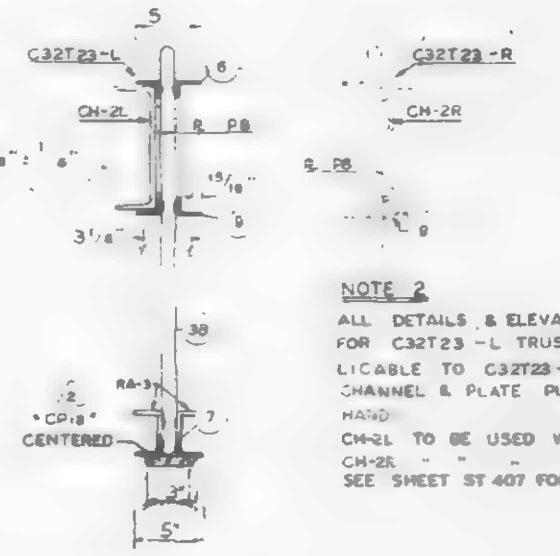
CHORD PLATE DETAILS SHOWN ON SHEET ST283.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM.



TRUSS ELEVATION

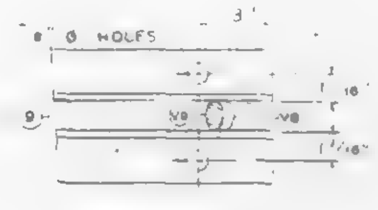


Fs = 7'-4 1/2"

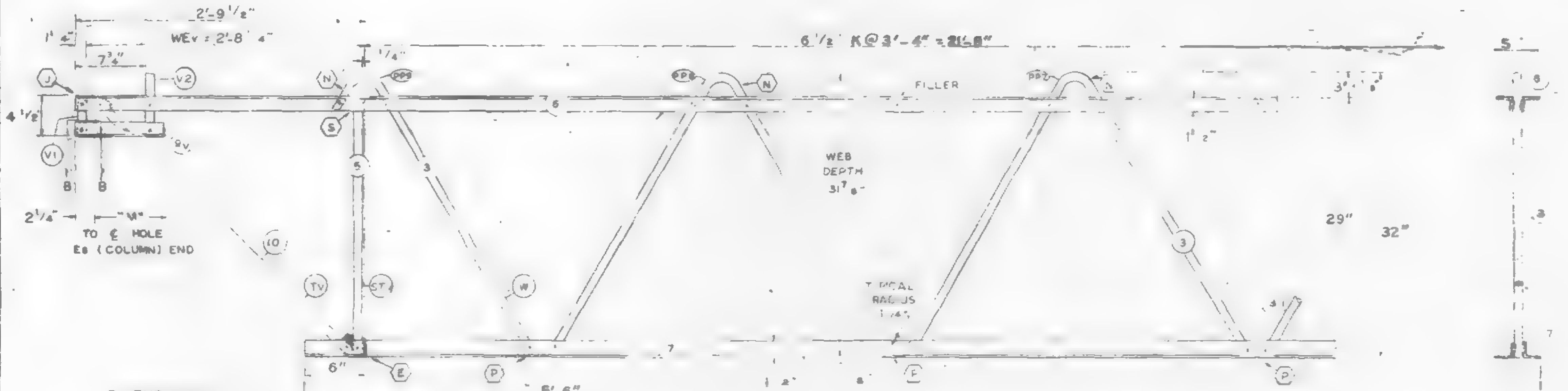


NOTE 2

ALL DETAILS & ELEVATIONS SHOWN FOR C32T23-L TRUSSES ARE APPLICABLE TO C32T23-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP HAND.
CH-2L TO BE USED WITH C32T23-L
CH-2R " " " " C32T23-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.

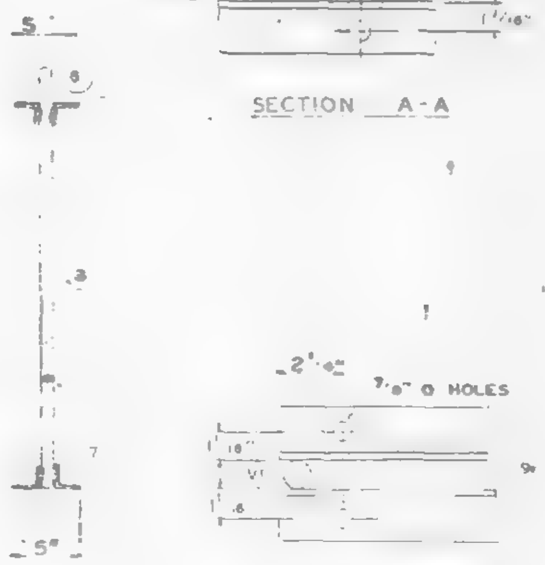


SECTION A-A



EL END (CORE END)

BOTTOM CHORD = 26'-0"



SECTION B-B

FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE ±
CAMBER AT MIDSPAN	3/8"	3/8"
DESIGN DEPTH	29"	1/4"
PANEL "K"	3'-4"	1/4"
OVERALL LENGTH	35'-8"	1/8"
WEB DEPTH	31 7/8"	1/4"
CL DIMENSIONS	—	[illegible]

NO	DATE	REVISION	BY
2	10-18-68	AS NOTED	L.W.H.
1	10-4-68	GENERAL	T.N.C.

REF. DRWG.

7-ABI-22	8-[illegible]-68
7-ABI-52	2-[illegible]-68
7-ABI-53	7-22-68
7-ABI-54	6-5-68
7-264-53-56	8-[illegible]-68
SA-124	8-[illegible]-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF "K" SEE NOTE 1	FILLER NO.	DIA.	℄ "M" HOLE	CONNECTION FILLERS NO.	DIA.	LENGTH	CHORD PLATE TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS	SIZE	LENGTH	REINF. ANGLE (2 REQ'D) MK.	TYPE STEEL	SIZE	LGTH	TRUSS DATA
C32T23-L	6	A242	2"x1 1/2"x.25	35'-8"	7	A242	2"x1 1/2"x.25	29'-0"	3 / 3B	A242 / A242	.98 / .98	40'-11 1/4" / 10'-7 3/8"	[illegible]	6	.98	35'-2 3/4"	—	—	—				PB	A36	3	4"x3/8	5 1/2"	RA	A242	2"x1 1/2"x.25	7 1/2"	

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	NOTE NO. 2 LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH
C32T23-L	9	A242	2"x1 1/2"x.25	2	10"-4 1/2"	5'-4 1/4"	DS	A242	.98	2'-5 [illegible]"	2	A242	.98	10 1/2"	A242	.98	8'-3 7/8"	—	—	—	CH-2L / CH-2R	A36 / A36	10 ⊏ 30 / 10 ⊏ 30	10'-0" / 10'-0"	CP13	A36	3"x.125	4'-4"

CHECK DIMENSION FOR FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/2"	—	—	7'-4 1/2"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS
C32T23-L	8V	A242	2"x1 1/2"x.25	10"	2'-8 1/4"	10	A242	.98	3'-6 1/4"	5	A242	.98	2'-4 7/8"	A242	.98	4 3/8"	A242	.98	7 3/8"	—	—	—	—	—	—	—	—	—	—	—	—

PAINT: LACLEDE ELECTROCOAT RED NO. 10001

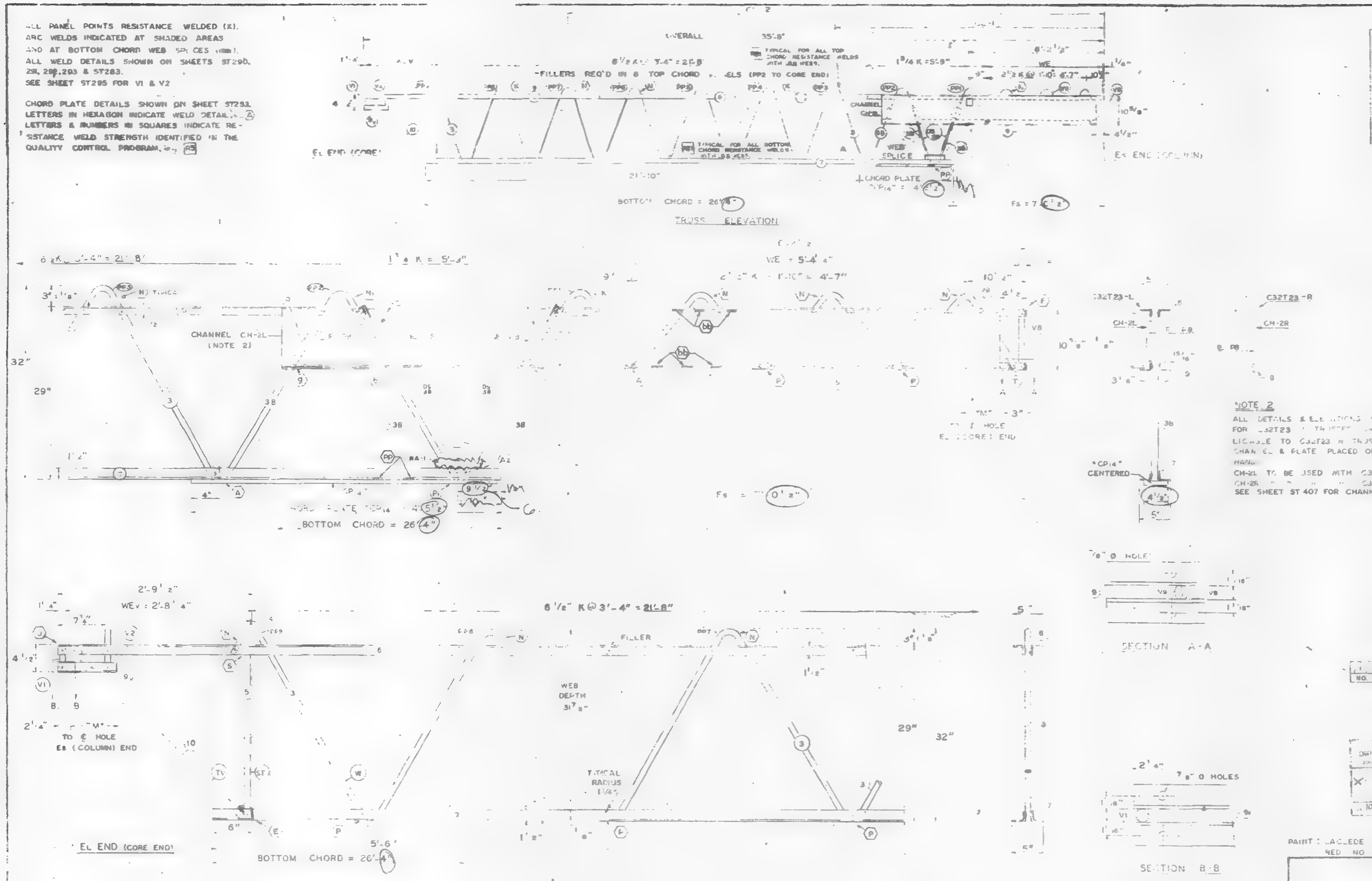
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T23-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-ABI-22	PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 10/23/68	DRAWN BY [illegible] DATE SEPT. 6, 1968	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE SEPT. 9, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 223-L

ALL PANEL POINTS RESISTANCE WELDED (X).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, 291, 292, 293 & ST283.
SEE SHEET ST295 FOR V1 & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST293.
LETTERS IN HEXAGON INDICATE WELD DETAIL, e.g. (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, e.g. [R5]



NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T23-L TRUSSES ARE APPLICABLE TO C32T23-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP HAND.
CH-2L TO BE USED WITH C32T23-L
CH-2R TO BE USED WITH C32T23-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	3/8"	3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	35'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"
CL DIMENSIONS	—	± 3/8"

NO.	DATE	REVISION	BY
1	10-4-68	GENERAL	T.M.C.

REF DWG.	
7-AB1-22	8-13-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB1-54	8-15-68
7-AB1-64-53-56	8-5-68
SA-124	8-1-68

10/15/68 SL

PAINT: LACLEDE ELECTROCOAT RED NO. [illegible]

TRUSS DESIGNATION	TOP CHORD TWO ANGLES (MK / TYPE STEEL / SIZE / LENGTH)	BOTTOM CHORD TWO ANGLES (MK / TYPE STEEL / SIZE / LENGTH)	MAIN WEB "W"	FILLER (NO. / DIA)	"M" C/C HOLE	CONNECTION FILLERS	CHORD PLATE	CHANNEL PLATES (MK / TYPE STEEL / PCS. / SIZE / LENGTH)	REINF. ANGLE (2 REQ'D) (MK / TYPE STEEL / SIZE / LGTH)	TRUSS DATA
C32T23-L	6 / A242 / 2"x 2"x .25 / 35'-8"	7 / A242 / 2"x 1 1/2"x .25 / 26'-4"	3 A242 .98 40'-6 1/4"; 38 A242 .68 10'-7 3/8"	6 / .98	35'-2 3/4"	— —	—	P8 / A36 / 3 / 4"x.39 / 5 1/2"	RA1 / A242 / 2"x1 1/2"x.25 / 7 1/2"	

COLUMN END	DESIGNATION	TOP CHORD (MK / TYPE STEEL / SIZE / LENGTH)	WEB	END STIFFENER V2 (TYPE STEEL / DIA / LENGTH)	CHANNEL (NOTE NO. 2) (MK / TYPE STEEL / CHANNEL SIZE / LENGTH)	CHORD PLATE (MK / TYPE STEEL / SIZE / LENGTH)
	C32T23-L	9 / A242 / [illegible] / 10'-4 1/2"	5'-4 1/4" 38 A242 .98 2 6 3/4"; 2 A242 .98 10 1/2"	A242 / .98 / 8'-3 7/8"	CH2L A36 10 [30 10'-0"; CH2R A36 10 [30 10'-0"	CP14 / A36 / 4 1/2"x.75 (3x.25) / 4'-6 1/2"

CHECK DIMENSION FOR FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/2"	—	—	7'-0 1/2"

CORE END	TRUSS DESIGNATION	WEB (MK / TYPE STEEL / SIZE / LENGTH)				DOUBLE "RU"	DOUBLE "RL"
	C32T23-L	8V / A242 / 2"x1 1/2"x.25 / 10"	10 / A242 / .98 / 3'-6 1/4"	5 / A242 / .98 / 2'-4 7/8"	A242 / .98 / 4 3/8"	A242 / .98 / 7 7/8"	—

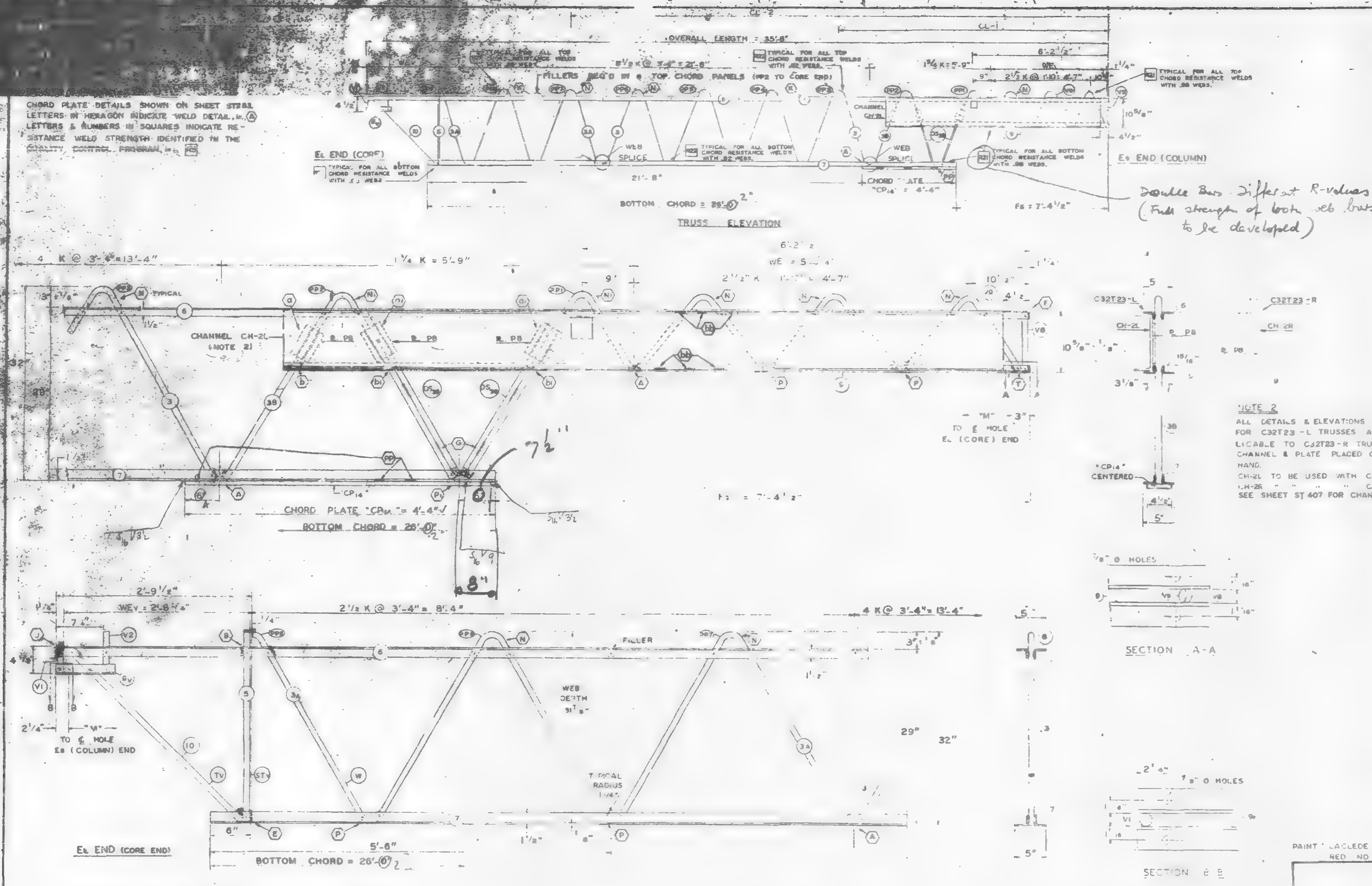
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T23-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A B

FABRICATION BY [illegible] COMPANY

FABRICATED AT MADISON	DESIGN DRAWING NO. 7-AB1-22	
APPROVED FOR [illegible] BY	DRAWN BY [illegible] DATE SEPT 6, 1968	
APPROVED FOR FABRICATION BY	CHECKED BY: T.M. CHURA DATE SEPT 9, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: [illegible]	FABRICATION CONT. NO. WTC 221	SHEET NO. ST 223-L

CHORD PLATE DETAILS SHOWN ON SHEET ST281
LETTERS IN HEXAGON INDICATE WELD DETAIL, i.e. (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [KS]



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN		3/8"
DESIGN DEPTH		± 1/4"
PANEL "K"	4"	
OVERALL LENGTH	35'-8"	± 1/8
WEB DEPTH		
CL DIMENSIONS		± 1/8"

NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T23-L TRUSSES ARE APPLICABLE TO C32T23-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP HAND.
CH-2L TO BE USED WITH C32T23-L
CH-2R " " " " C32T23-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.

REF. DRWG.	
7-AB1-22	8-13-68
7-AB1-52	2-15-68
7-AB1-53	7-22-68
7-AB1-54	8-15-68
7-264-53-56	8-15-68
SA-124	8-1-68

PAINT: LACLEDE ELECTROCOAT RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO OF "K" SEE NOTE 1	FILLER NO	DIA.	C/C "M" HOLE	CONNECTION FILLERS NO	DIA.	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK	TYPE STEEL	PCS.	SIZE	LENGTH	TRUSS DATA
C32T23-L	6	A242	2"x1 1/2"x.25	35'-8"	7	A242	2"x1 1/2"x.25	26'-0 1/2"	3 / 3A / 3B	A242 / A242 / A242	.92 / .98 / .98	24'-11" / 15'-8 7/8" / 10'-7 7/8"	4 K@ 3'-4"=13'-4" / 2 1/2 K@ 3'-4"= 8'-4" / 1 3/4 K@ 3'-4"= 5'-9"	6	.92	35'-2 3/4"	—	—	—					P8	A36	3	4"x 4 1/2"x.29	6 5 1/2	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	PCS	END STIFFENER MK. V8 TYPE STEEL	DIA	LENGTH	MK. V9 TYPE STEEL	DIA	LENGTH	MK. V10 DIA	LENGTH	CHANNEL MK	TYPE STEEL	CHANNEL SIZE	NOTE NO. 2 LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
	C32T23-L	9	A242	2x1 1/2 x.25	2	10'-4 1/2"	5'-4 1/4"	DS 38	A242	.98	2'-6 3/4"	2	A242	.98	10 1/2"	A242	.98	8'-3 7/8"	—	—	CH2L / CH2R	A36 / A36	10-3.90 / 10-3.30	10'-0" / 10'-0"	CP 14	A36	4 1/2x.75 (4 1/4)	4'-4"

CHECK DIMENSION FOR FAB LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/2"	—	—	7'-4 1/2"

CORE END

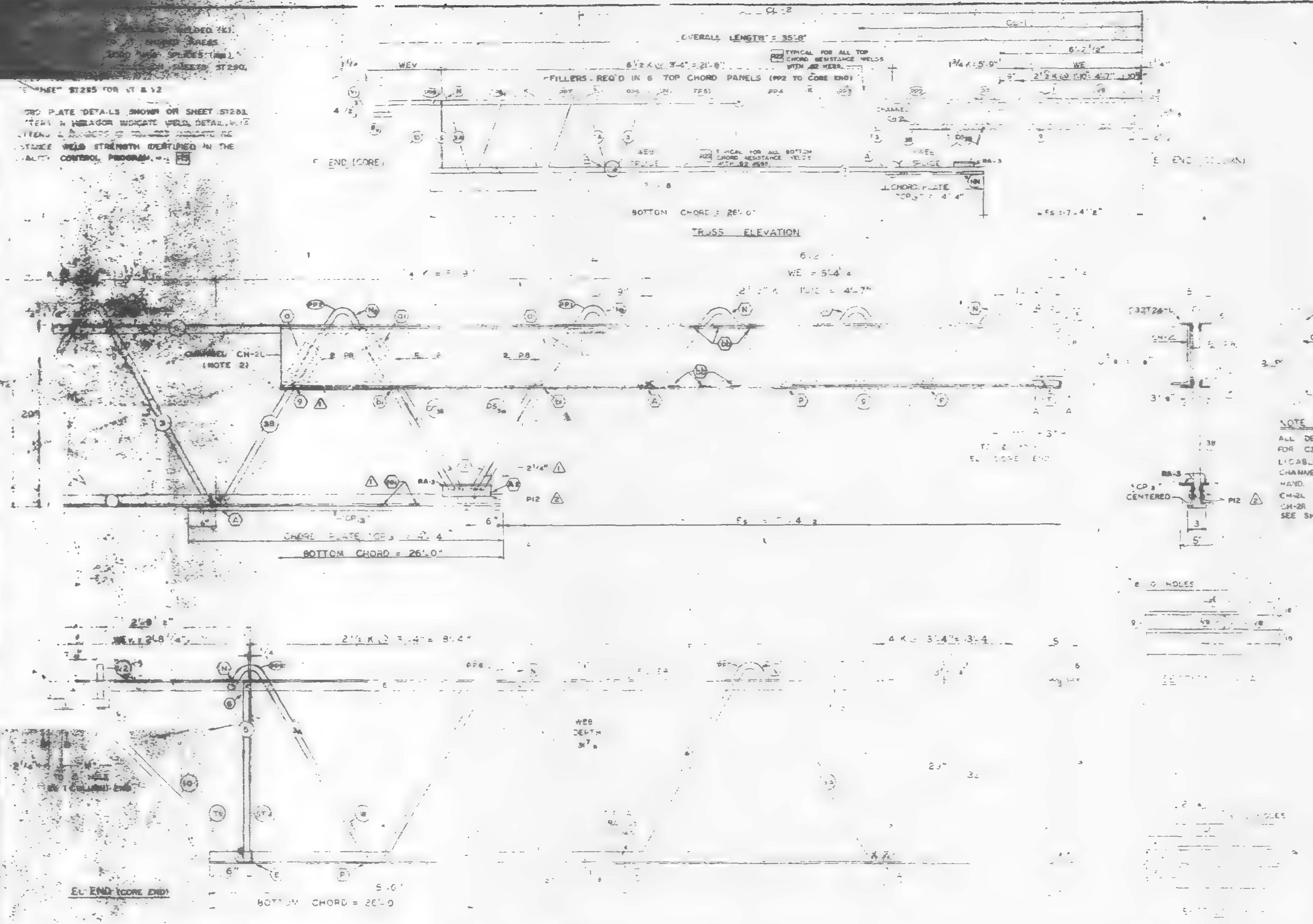
EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS
	C32T23-L	9Y	A242	2"x1 1/2"x.25	10"	2'-8 1/4"	10	A242	.98	3'-6 1/4"	5	A242	.98	2'-7 7/8"	A242	.98	4 3/8"	A242	.98	7 3/8"	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T23-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-22	PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE	DRAWN BY ___ DATE SEPT. 6, 1968	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE	CHECKED BY T.M.CHOPRA DATE SEPT. 9, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER	FABRICATION CONT NO W.T.C. 221	SHEET NO ST 223-L



NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T24-L TRUSSES ARE APPLICABLE TO C32T24-R TRUSSES WITH CHANNEL & PLATE PLACED ON OPP. HAND.
CH-2L TO BE USED WITH C32T24-L
CH-2R " " " " C32T24-R
SEE SHEET ST 407 FOR CHANNEL DETAILS.

NO.	DATE	REVISION	BY
2	12-26-68	AS NOTED	[illegible]
1	11-7-68	AS NOTED	[illegible]

2 REF DRWG

7-AB1-22	10-4-68
7-AB1-52	2-13-68
7-AB1-53	7-22-68
7-AB1-54	11-25-68
7-A64-53-56	10-4-68
SA-124	10-31-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES					BOTTOM CHORD TWO ANGLES			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		TYPE STEEL	SIZE	LENGTH	
C32T24-L	6	A242	2"x1½"x.25	35'-8"		A242	2"x1½"x.25	26'-0"	

COLUMN END	Es END	DESIGNATION	MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	MK	TYPE STEEL	DIA	LENGTH	PCS	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
		C32T24-L	[illegible]	A242	[illegible]	[illegible]	10'-4½"	5'-4¼"	[illegible]	A242	.92	2'-6¾"	2	A242	.92	10½"	A242	.92	8'-3"

CORE END	EL END	DESIGNATION	MK	BEARING ANGLES TYPE STEEL	CHORD SIZE	LENGTH	WEv	MK	DIAGONAL "TV" STRUT TYPE STEEL	DIA	LENGTH	MK	VERTICAL "SV" STRUT TYPE STEEL	DIA	LENGTH	END STIFFENER TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA
		C32T24-L	BV	A242	2"x1½"x.25	10"	2'-6¼"	10	A242	.98	3'-6¼"	5	A242	.98	2'-4 [illegible]	A242	.98	4'-5"	A242	.98

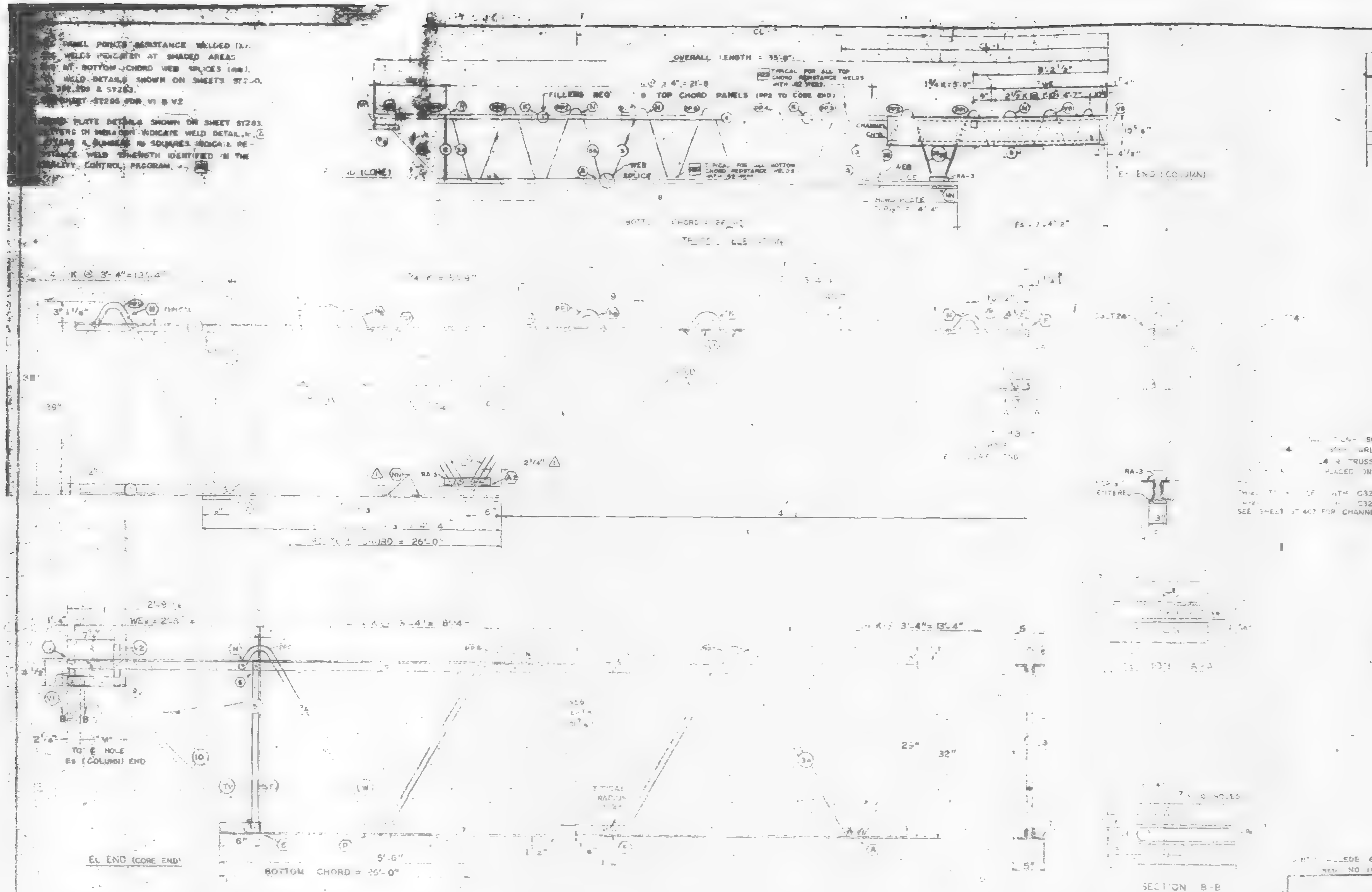
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T24-L 35'-8" OVERALL (SEE NOTE NO. 2)
[illegible] CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR PONYA — DATE 1/13/69
APPROVED FOR FABRICATION FOR FABRICATOR — DATE
DETAILED BY CARL PEEBER
DESIGN DRAWING NO. 7-AB1-22
DRAWN BY: [illegible] DATE SEPT 23, 1968
CHECKED BY: T.M.CHIURA DATE SEPT 24, 1968
FABRICATION CONT. NO. W.T.C. 221
PLATE
IN CHARGE OF PROD.
SHEET NO. ST 224[illegible]

PANEL POINTS RESISTANCE WELDED (X).
WELDS INDICATED AT SHADED AREAS
AT BOTTOM CHORD WEB SPLICES (▪▪).
WELD DETAILS SHOWN ON SHEETS ST2[illegible]0, [illegible] & ST283.
SHEET ST285 FOR V1 & V2

PLATE DETAILS SHOWN ON SHEET ST283.
LETTERS IN HEXAGON INDICATE WELD DETAIL.
[illegible] & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM.



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	[illegible]	[illegible]
OVERALL LENGTH	[illegible]	[illegible]
WEB DEPTH	[illegible]	[illegible]
CL DIMENSIONS	[illegible]	[illegible]

NO.	DATE	REVISION	BY
1	11-7-68	AS NOTED	G.O.C.

1 REF. DWG [illegible] 10-4-68
[illegible] 2-15-68
[illegible] 7-27-68
[illegible] 10-4-68
[illegible] 10-4-68
SA-124 10-1-68

[illegible] LACLEDE ELECTROCOAT [illegible] NO 1000)

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF "K" SEE NOTE 1	FILLER NO.	DIA.	CL HOLE	CHORD PLATE	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	TRUSS DATA	REINF. ANGLE (2 REQ'D) MK.	TYPE STEEL	SIZE	LGTH.
C32T24-L	6	A242	2"x1½"x.25	35'-8"	7	A242	2"x1½"x.25	26'-0"	3 / 3A / 3B	A242 / A242 / A242	.92 / .92 / .92	24'-11" / 18'-0¼" / 10'-7⅛"	4 K@ 3'-4"=13'-4" / 2½ K@ 3'-4"=8'-4" / 1¾ K@ 3'-4"=5'-9"	6	.92	35'-2¾"	—	P8	A36	3	4½x3⅜	5½"		RA4	A242	2"x1½"x.25	7½"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH	W.E.	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS.	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	NOTE NO. 2 LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH
		C32T24-L	8	A242	2"x1½"x.25	2	10'-4½"	5'-4¼"	3S / 3B	A242	.92	2'-5¾"	2	A242	.92	10½"	A242	.92	8'-3⅞"	—	—	—	CH2 / CH2A	A36 / A36	10 3.30 / 10 3.30	10'-0 / 10'-0"	CP 13	A36	3"x.25	4'-4"

CHECK DIMENSION FOR FAB.

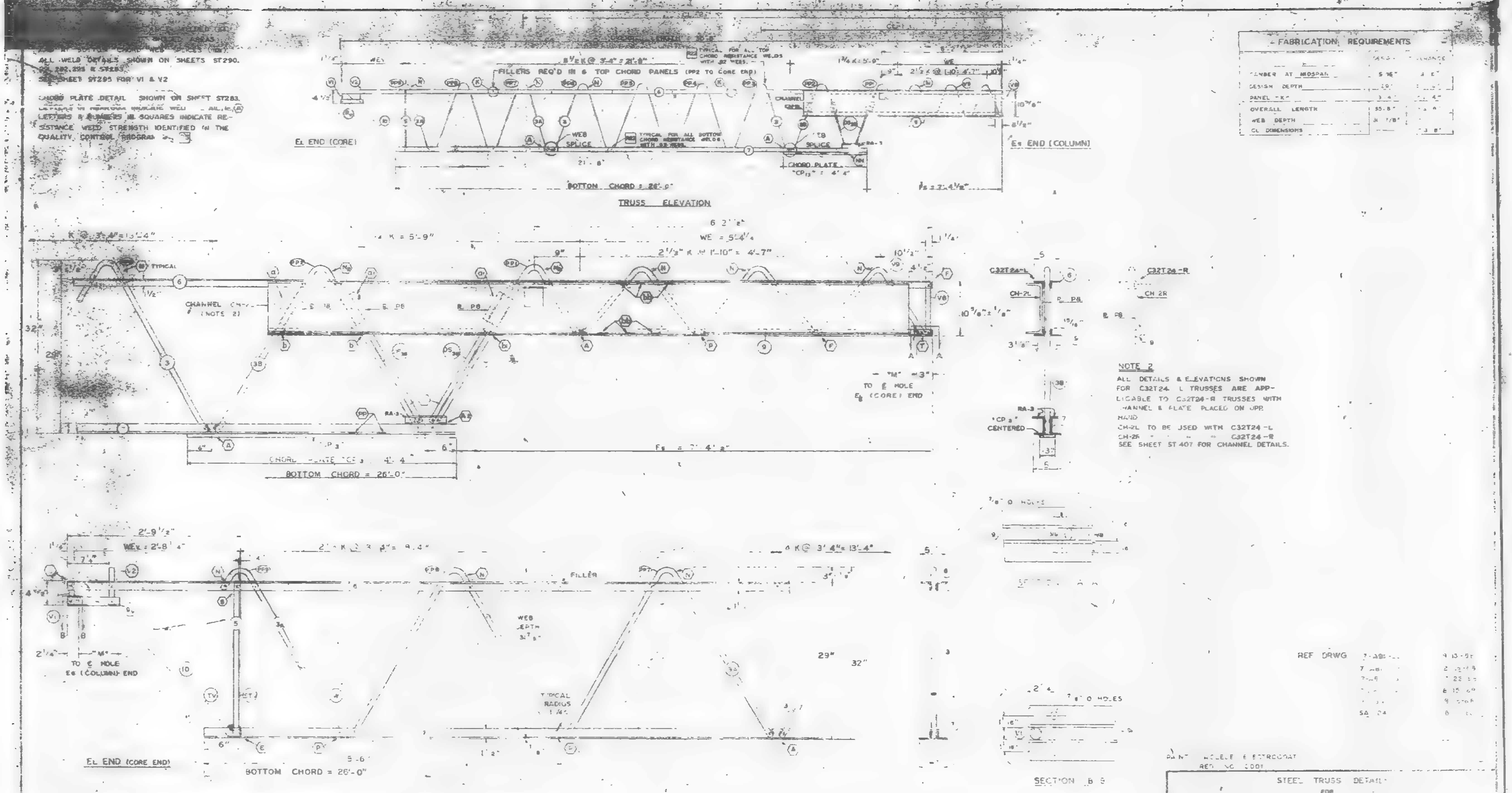
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Es
12'-10½"	26'-2½"	—	—	7'-4½"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WLv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STV" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. [illegible] TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS
		C32T24-L	9	A242	2"x1½"x.25	10"	2'-8¼"	10	A242	.98	3'-6¼"	5	A242	.98	2'-4⅞"	A242	.98	4⅜"	A242	.98	1'-7⅞"	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAIL
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T24-L, 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. [illegible]AB[illegible]22
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 11/18/68
DRAWN BY [illegible] DATE SEPT 23, 1968
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE [illegible]
CHECKED BY: T.M.CHURA DATE SEPT 24, 1968
DETAILED BY: [illegible]
FABRICATION CONT. NO. [illegible]
SHEET NO. [illegible]



TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF "K" SEE NOTE	FILLER NO.	DIA.	"M" C/C HOLE	CONNECTION FILLERS NO.	DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	TRUSS DATA	REINF. ANGLE (2 REQ'D) MK.	TYPE STEEL	SIZE	LGTH
C32T24-L	6	A242	2"x 1 1/2"x .25	35'-8"	7	A242	2"x 1 1/2"x .25	26'-0"	3A / 3B	A242 / A242	.98 / .92	[illegible] / 10'-7 3/4"	[illegible]	6	.92	35'-2 3/4"	—	—	—					P8	A36	3	4 1/2 x .38	5 1/2"		RA6	A242	2"x 1 1/2"x .25	7 1/2"

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	END STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS.	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	NOTE NO. 2 LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH
	1	C32T24-L	3	A242	2x1 1/2 x .25	[illegible]	[illegible]	5'-4 1/4"	[illegible]	A242	.92	2'-6 3/4"	2	A242	.92	10 1/2"	A242	.92	[illegible]	—	—	—	[illegible]	[illegible]	[illegible]	[illegible]	CP	A36	3" x .28	4'-4"

CHECK DIMENSION FOR FAB

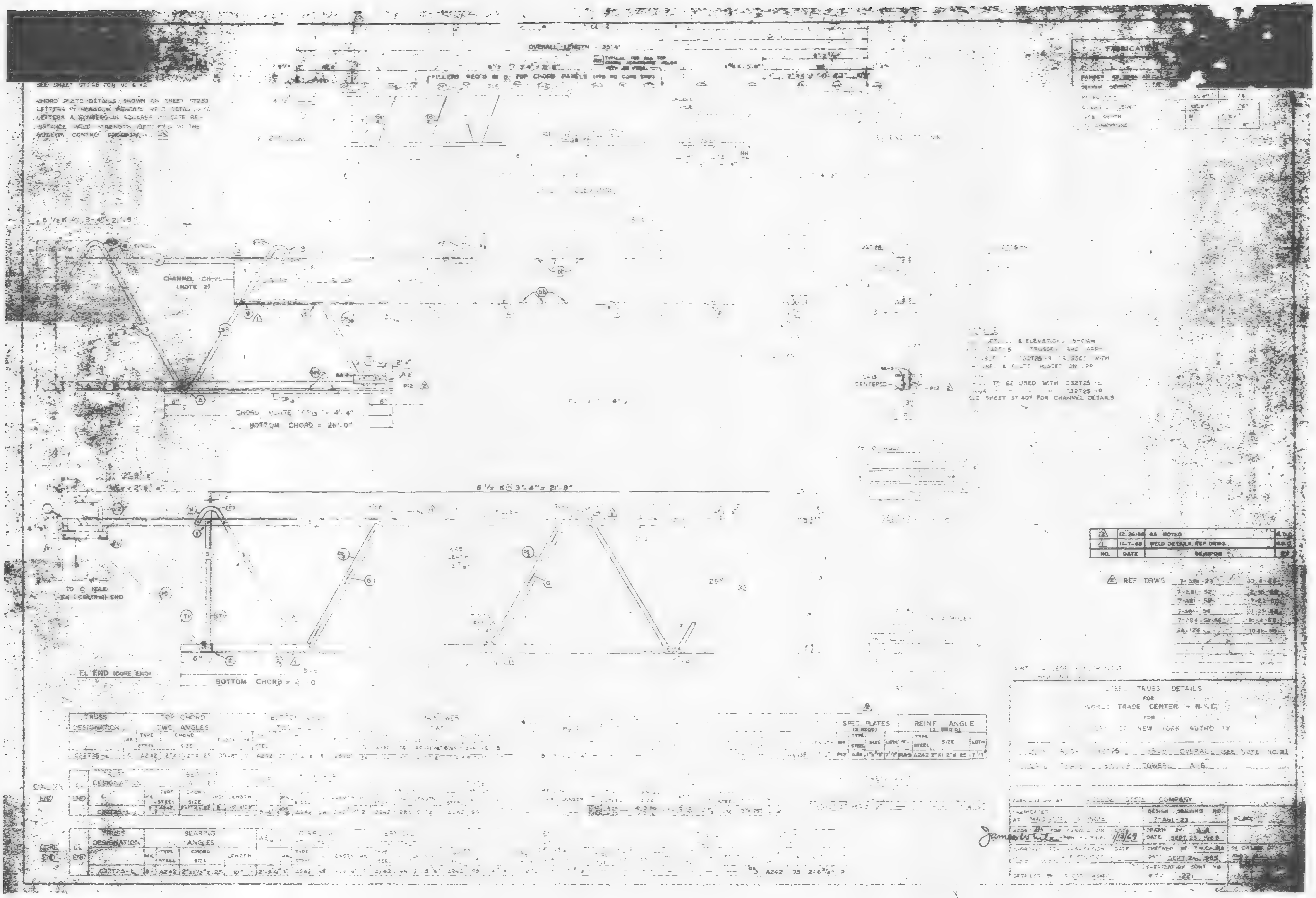
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	[illegible]'-2 1/2"	—	—	7'-4 1/2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS
		C32T24-L	18V	A242	2"x1 1/2"x .25	10"	2'-8 1/4"	10	A242	.98	3'-6 1/4"	5	A242	.98	2'-4 3/8"	A242	.98	4 3/8"	A242	.98	7 5/8"	—	—	—	—	—	—	—	—	—	—	—	—

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

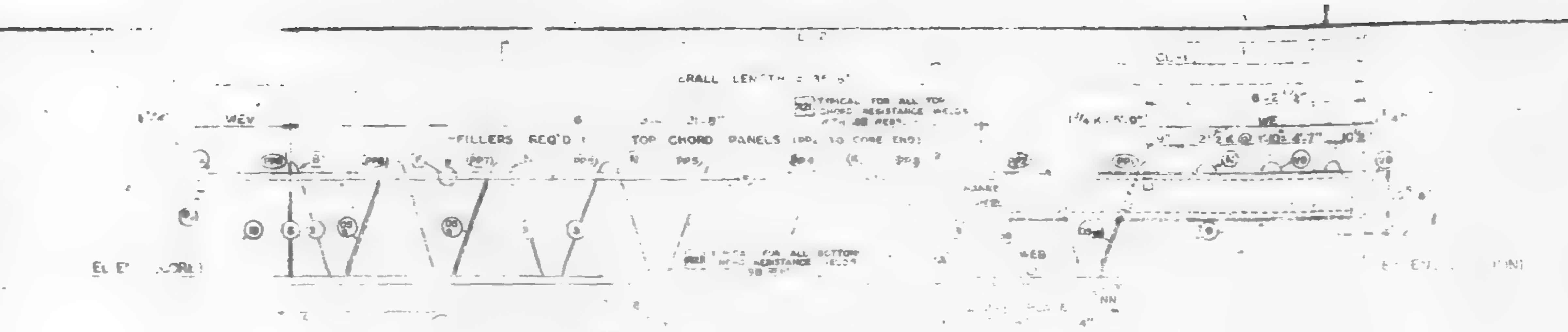
FLOOR TRUSS C32T24-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7 ABI-22
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 10/29/68
DRAWN BY [illegible] DATE SEPT 23, 1968
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. FOR FABRICATOR DATE
CHECKED BY [illegible] DATE SEPT 24, 1968
IN CHARGE OF [illegible]
DETAILED BY A. CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET ST 224-L


OVERALL LENGTH = 35'-8"
FILLERS REQ'D IN TOP CHORD PANELS
CHORD PLATE DETAILS SHOWN ON SHEET
CHANNEL (NOTE 2)
CHORD PLATE = 4'-4"
BOTTOM CHORD = 26'-0"
6 1/2 K @ 3'-4" = 21'-8"
EL END (CORE END)
BOTTOM CHORD
SEE SHEET ST 407 FOR CHANNEL DETAILS.
12-26-68 AS NOTED
11-7-68 WELD DETAILS REF DRWG.
NO. DATE
REF DRWG 7-A81-23
TRUSS DESIGNATION
TOP CHORD TWO ANGLES
C32T25-L
SPEC PLATES
REINF ANGLE
BEARING ANGLES
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
NEW YORK AUTHORITY
OVERALL (SEE NOTE NO. 2)
TOWERS A-B
FABRICATED BY STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A81-23
DRAWN BY
DATE SEPT. 23, 1968
CHECKED BY
DATE SEPT. 24, 1968
FABRICATION CONT NO. 221
1/13/69

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, 23?, 282, 283 & ST283.
SEE SHEET ST245 FOR V1 & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST233.
LETTERS IN HEXAGON INDICATE WELD DETAIL (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM.



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	3'-4"	[illegible]
OVERALL LENGTH	35'-8"	[illegible]
WEB DEPTH	[illegible]	[illegible]
CL DIMENSIONS		[illegible]

⚠1	11-7-68	WELD DETAILS, REF DRWG.	P.D.C.
NO.	DATE	REVISION	BY

⚠1 REF. DRWG. 7-ABI-23 10-4-68
7-ABI-24 2-15-68
7-22-68
10-4-68
10-4-68
SA-124 10-11-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA.	LENGTH	NO. OF SECTIONS	FILLER	℄ "M" TO ℄ HOLE
									3	A242	.98	40'-11 1/4"	6 1/2 K @ 3'-4" = 21'-8"		
C32T25-L	6	A242	2"x1 1/2"x.25	35'-8"	7	A242	2"x1 1/2"x.25	26'-0"	3B	A242	.98	[illegible]	[illegible]	6 .98	35'-2 3/4"

PLATES TYPE STEEL	PCS	SIZE	LENGTH
A36	3	4 1/2x.35	5 1/2"

REINF. ANGLE (2 REQ'D) MK	TYPE STEEL	SIZE	LGTH
RA-3	A242	2"x1 1/2"x.25	7 1/2"

CHECK SHEET

TRUSS DESIGNATION	MK	TYPE STEEL	SIZE			TYPE STEEL	LENGTH	MK	TYPE STEEL	DIA.	LENGTH		TYPE STEEL			TYPE STEEL	LENGTH	MK	TYPE STEEL	DIA	LENGTH	PCS
C32T25-L	9Y	A242	2"x1 1/2"x.25	10"	2'-8 1/4"	10 A242	.98	3'-6 1/4"	5	A242	.98	2'-4 7/8"	A242	.98	4 3/8"	A242	[illegible]	[illegible]		.75	2'-6 3/4"	2

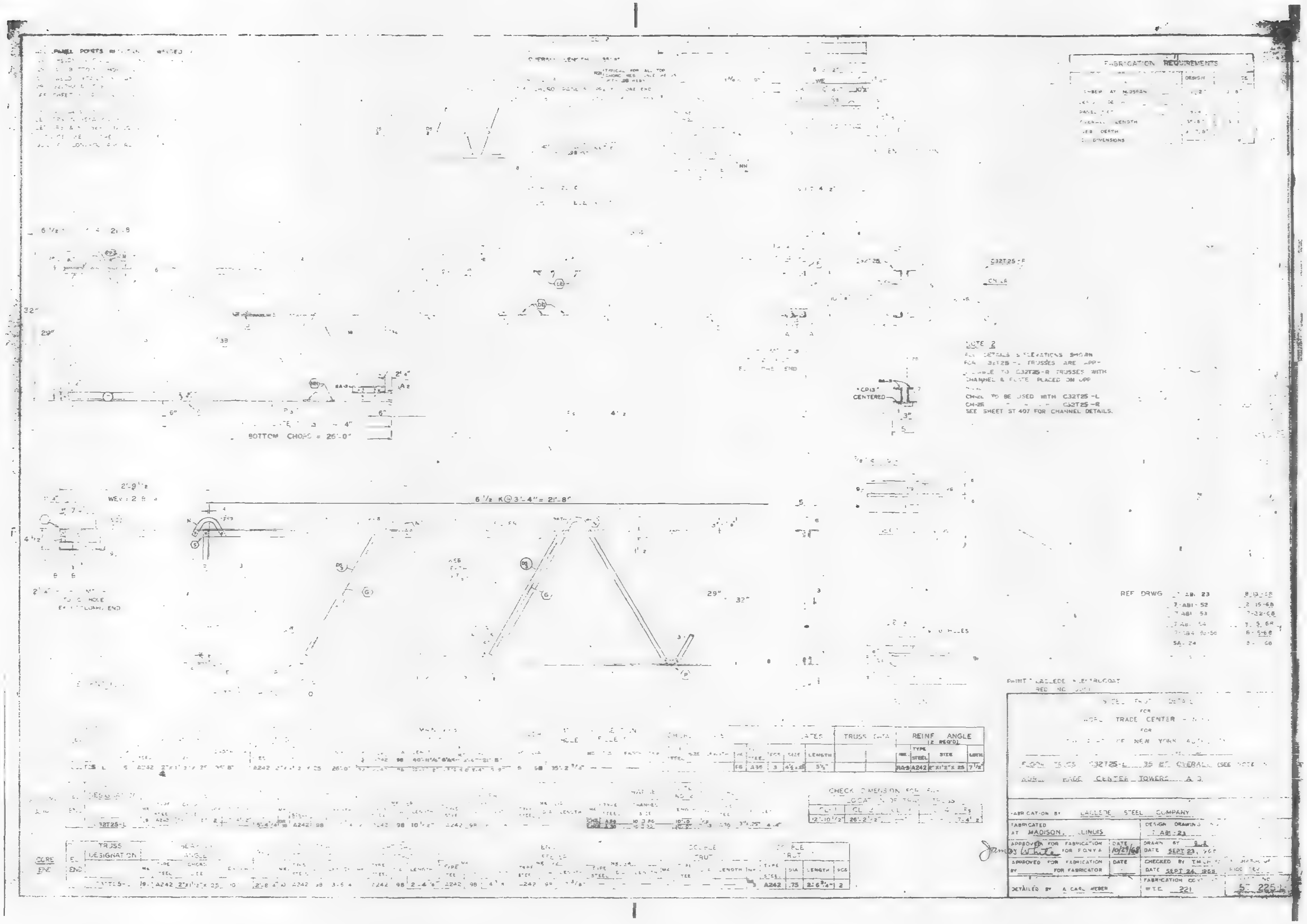
STEEL TRUSS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

C32T25-L 35'-8" OVERALL (SEE NOTE)
WORLD TRADE CENTER TOWERS A & B

LADDE STEEL COMPANY

11/18/68

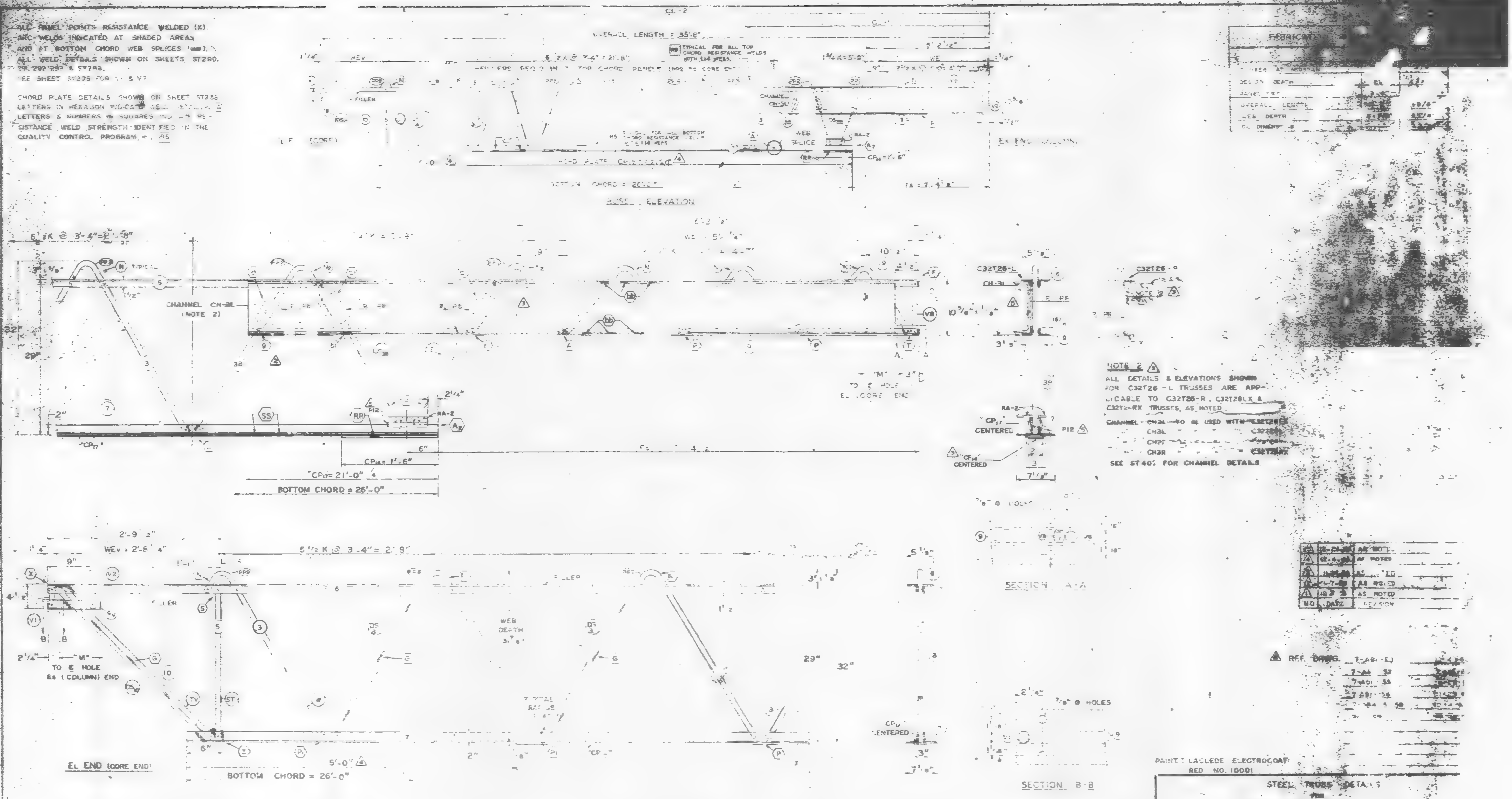
APPROVED FOR FABRICATION FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE SEPT 24, 1968	IN CHARGE OF PROD. DEV.
BY A. CARL WEBER		FABRICATION CONT NO. WTC 221	SHEET NO. ST 225-L



FABRICATION REQUIREMENTS
BOTTOM CHORD = 26'-0"
6 1/2 K @ 3'-4" = 21'-8"
NOTE 2
SEE SHEET ST 407 FOR CHANNEL DETAILS.
"CP13" CENTERED
REINF ANGLE
CHECK DIMENSION
REF DRWG
SA-24
TRADE CENTER
NEW YORK
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING
APPROVED FOR FABRICATION
DATE 10/29/68
DATE SEPT 23
APPROVED FOR FABRICATION BY FOR FABRICATOR
DATE SEPT 24, 1968
DETAILED BY A CARL WEBER
W.T.C. 221

ALL PANEL POINTS RESISTANCE WELDED (X).
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, 291, 292, 293 & ST283.
SEE SHEET ST295 FOR V1 & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST283
LETTERS IN HEXAGON INDICATE WELD DETAIL
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, 95



NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T26-L TRUSSES ARE APPLICABLE TO C32T26-R, C32T26LX & C32T2-RX TRUSSES, AS NOTED
CHANNEL CH2L TO BE USED WITH C32T26LX
CH3L C32T26L
CH2R
CH3R C32T26RX
SEE ST407 FOR CHANNEL DETAILS

REF. DWG.

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"				FILLER	SPEC. PLATES (2 REQ'D)				CHORD PLATE			CHANNEL PLATES					CHANNEL ANGLE			TRUSS DATA
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH		MK	TYPE STEEL	SIZE	LENGTH	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	PCS	SIZE	LENGTH	MK	TYPE STEEL	LENGTH	
C32T26-L	6	A242	2" x 1/2" x .37	35'-8"	7	A36	3" x 2" x .33	26'-0"	3B	A242	1.19	10'-7 3/8"	7, 1.14, 35'-2 3/4"	P12	A36		7 1/2"	A36	3" x 4"	21'-0"	PB	A36	3						

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT					END STIFFENER						CHANNEL NOTE NO. 2			CHORD PLATE			
			MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH		MK	TYPE STEEL	DIA	LENGTH	PCS	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	CHANNEL SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
		C32T26-L	8	A242		2	10'-4 1/2"	5'-4 1/4"	DS 38	A242	1.14	2'-6 3/4"	2	A242	1.14	10 1/2"	A242	1.14	8'-3"	A36	10 ⌐ 30	10'-0"	CP 14	A36		1'-6"

CHECK DIMENSION FOR FAB. LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Es
12'-10 1/2"	26'-2 1/2"	—	—	7'-6 1/2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "TV" STRUT				VERTICAL "SV" STRUT				END STIFFENER							DOUBLE STRUT					DOUBLE STRUT				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH		MK	TYPE STEEL	DIA	LENGTH	PCS	TYPE STEEL	DIA	LENGTH	MK	
		C32T26-L	9V	A242	2" x 1 1/2" x .25	10"	2'-8 1/4"	10	A242	1.14	3'-6 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 5/8"	—	DS 5	A242	.92	2'-6 3/4"	2	A242	.92	3'-6 1/4"	DS 10	

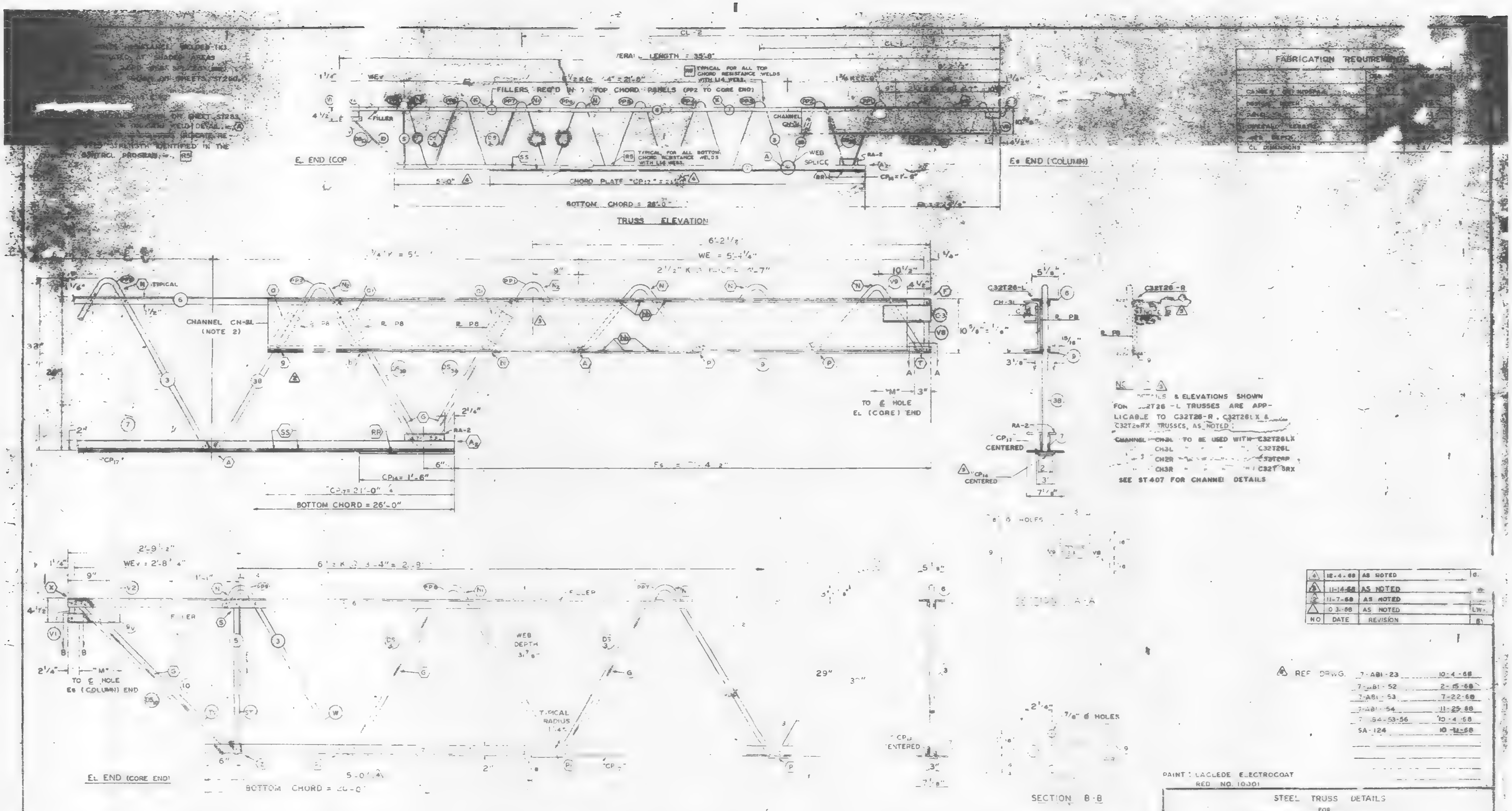
REINF. ANGLES (2 REQ'D)			
MK	TYPE STEEL	SIZE	LENGTH
RA 2	A36	3" x 2" x .38"	7 1/2"

PAINT: LACLEDE ELECTROCOAT RED NO. 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T26-L 35'-8" OVERALL (SEE NOTE)
WORLD TRADE CENTER TOWERS

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
LACLEDE STEEL CO.
DETAILED BY A. CARL



NO	DATE	REVISION
4	12-4-68	AS NOTED
3	11-14-68	AS NOTED
2	11-7-68	AS NOTED
1	10-3-68	AS NOTED

REF. DRWG.

7-ABI-23	10-4-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	11-25-68
7-64-53-56	10-4-68
SA-124	10-11-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES	BOTTOM CHORD TWO ANGLES	MAIN WEB "W"	FILLER	"M" C/C HOLE	CHORD PLATE	CHANNEL PLATES	CHANNEL / ANGLE	TRUSS DATA
C32T26-L	6 A242 2"x1 1/2"x .37 35'-8"	7 A36 3"x 2"x .33 26'-0"	3 A242 L14 ... 10'-7 5/8" ... 5'-9"	7 L14	35'-2 3/4"	CP17 A36 3"x1/4" 21'-0"	P8 A36 3 ...	C-3 A36 3"x2"x1/4" ...	

TRUSS DESIGNATION	BEARING ANGLE	END STIFFENER	CHORD PLATE	CHECK DIMENSION FOR FAB.
C32T26-L	9 A242 2x1 1/2x.25 2 10'-4 1/2" 5'-4 1/4" DS38 A242 L14 2'-5 3/4" 2 A242 L14 10 1/2" A242 L14 8'-3 7/8"	CH3 A36 10 ... 10'-0"	CP14 A36 2x5/8" 1'-6"	12-10 1/2" 20'-2 1/2" ... 17'-4 1/2"

TRUSS DESIGNATION	SEAT		DOUBLE STRUT	DOUBLE STRUT
C32T26-L	9V A242 2"x1 1/2"x .25 10"	2'-8 1/4" 10 A242 L14 3'-6 1/4" 5 A242 L14 2'-4 7/8" A242 ... 4 A242 L14 ...	DS A242 .92 2'-6 3/4" 2	A242 .92 3'-6 1/4" 10

REINF. ANGLES (2 REQ'D)

PAINT: LACLEDE ELECTROCOAT RED NO. 10301

STEEL TRUSS DETAILS FOR WORLD TRADE CENTER - N.Y.C. FOR THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T26-L 35'-8" OVERALL (SEE NOTE NO.2)

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS

DESIGN DRAWING NO. 7-ABI-23

APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 12/11/68

DRAWN BY ... DATE SEPT. 23, 1968

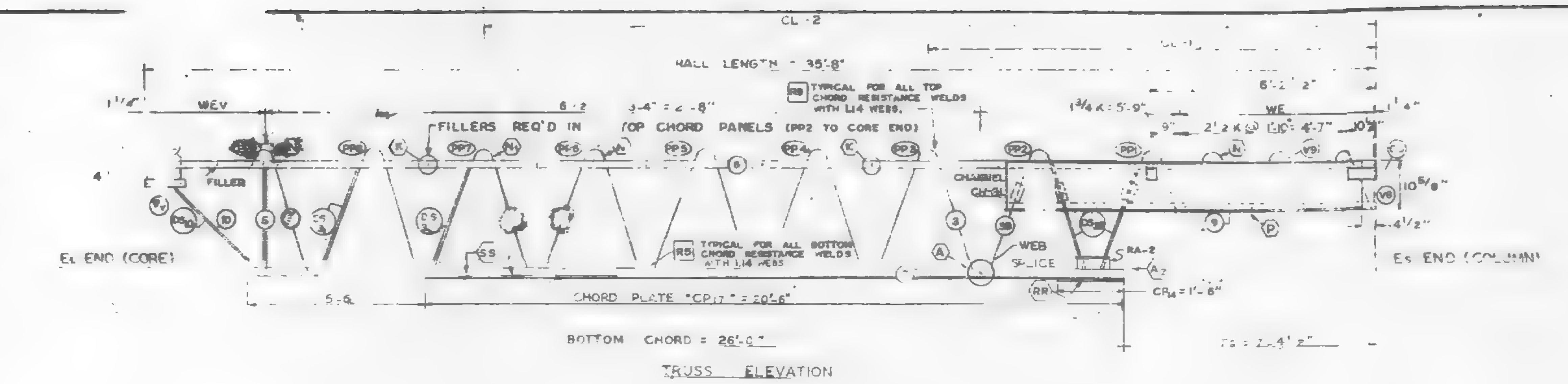
APPROVED FOR FABRICATION BY ... FOR FABRICATOR DATE

CHECKED BY T.M. ... DATE SEPT. 24, 1968

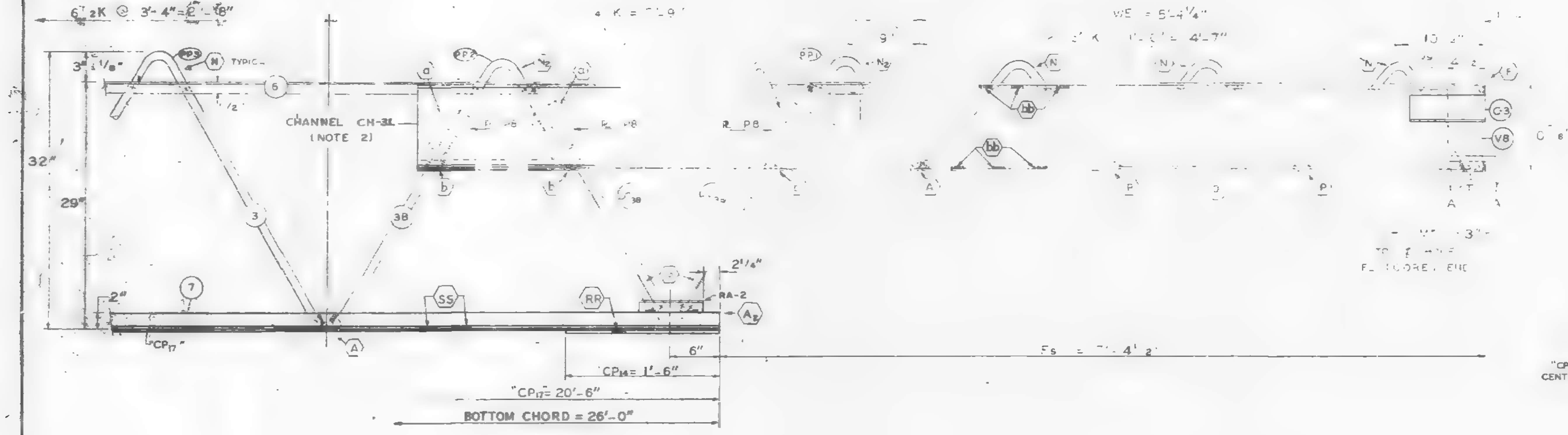
ST 226-L

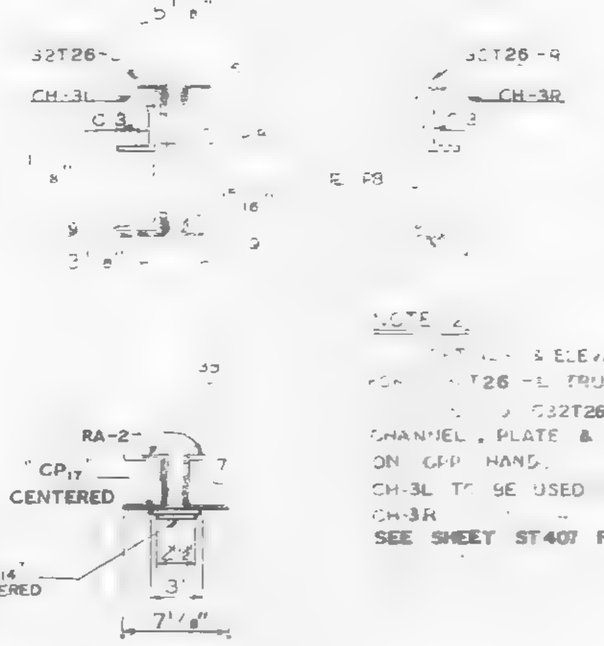
ALL PANEL POINTS RESISTANCE WELDED (X).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▬).
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST 292, 293 & ST283.
SEE SHEET ST296 FOR V1 & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST283.
LETTERS IN HEXAGON INDICATE WELD DETAIL, ie., (A)
LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R5]

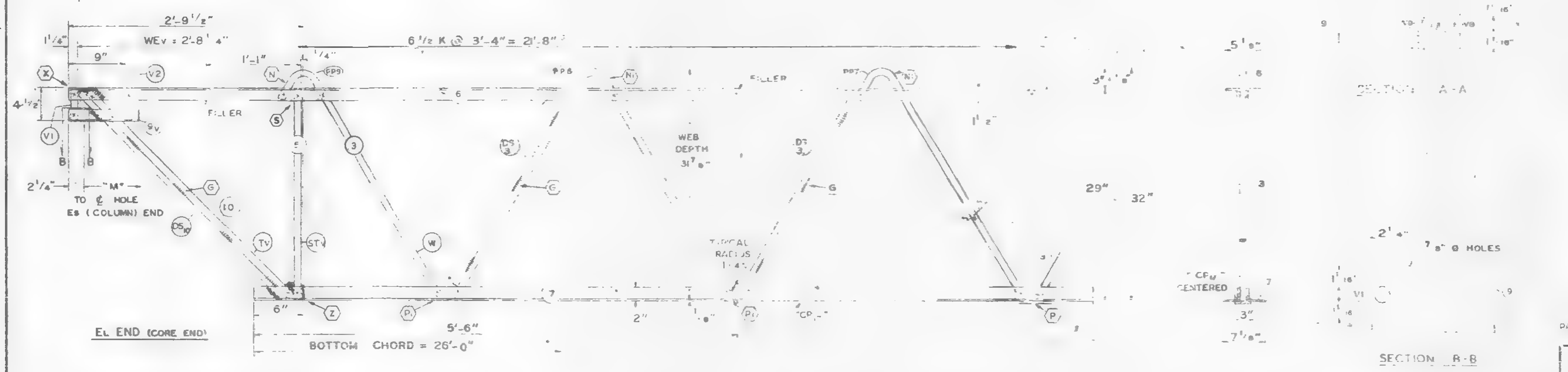


TRUSS ELEVATION





NOTE 2.
SECTIONS & ELEVATIONS SHOWN FOR C32T26-L TRUSSES ARE APPLICABLE TO C32T26-R TRUSSES WITH CHANNEL, PLATE & ANGLE C-3 PLACED ON OPP HAND.
CH-3L TO BE USED WITH C32T26-L
CH-3R " " " C32T26-R
SEE SHEET ST407 FOR CHANNEL DETAILS.



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	7/8"	3/8"
DESIGN DEPTH	29"	[illegible]
PANEL "K"	3'-4"	1/4"
OVERALL LENGTH	35'-8"	3/8"
WEB DEPTH	31 7/8"	[illegible]
CL DIMENSIONS	—	[illegible]

NO	DATE	REVISION	BY
1	10-31-68	AS NOTED	L.W.H.

REF DRWG.

7-ABI-23	8-13-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	8-15-68
7-ABI-53-56	8-15-68
SA-124	8-1-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLE	CONNECTION FILLERS	CHORD PLATE				CHANNEL PLATES					CHANNEL ANGLE				TRUSS DATA
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF "W" SEE NOTE 1	NO.	DIA.		NO. A LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	PCS.	SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	
C32T26-L	6	A242	2"x1 1/2"x .37	35'-8"	7	A36	3"x 2" x .33	26'-0"	3 / 3B	A242 / A242	L14 / L14	40'-11 1/4" / 10'-7 5/8"	6 1/2 K @ 3'-4" = 21'-8" / 1 3/4 K @ 3'-4" = 5'-9"	7	L14	35'-2 3/4"		CP17	A36	3"x 1/4"	20'-6"	P8	A36	3	4 1/2 x 3/8	5 1/2"	C-3	A36	3"x2"x 1/4"	3 1/2"	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES					WE	DOUBLE STRUT					END STIFFENER V8			END STIFFENER V9			END STIFFENER V10			CHANNEL NOTE NO. 2			CHORD PLATE			
		MK.	TYPE STEEL	CHORD SIZE	PCS.	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	PCS.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE / CHANNEL SIZE	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
	C32T26-L	9	A242	2x1 1/2 x .25	2	10'-4 1/2"	5'-4 1/4"	DS 38	A242	L14	2'-6 3/4"	2	A242	L14	10 1/2"	A242	L14	8'-3 7/8"				CH3L / CH3	A36 10 230 / A36 10 7 30	10'-0" / 10'-0"	CP 14	A36	2 x 1/4	1'-6"

CHECK DIMENSION FOR FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/2"	——	——	7'-4 1/2"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STV" STRUT				END STIFFENER V2			END STIFFENER			END STIFFENER V4			DOUBLE STRUT					DOUBLE STRUT				
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	STEEL		LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	PCS.	TYPE STEEL	DIA.	LENGTH	MK.
	C32T26-L	9V	A242	2"x1 1/2" x .25	10"	2'-8 1/4"	10	A242	L14	3'-6 1/4"	5	A242	L14	2'-4 7/8"	A242	L14	4 3/8"	A242	L14	7 3/8"	—	—	—	DS 3	A242	.92	2'-6 3/4"	2	A242	.92	3'-6 1/4"	DS 10

REINF ANGLES (2 REQ'D)			
MK.	TYPE STEEL	SIZE	LENGTH
RA-2	A36	3"x3"x 3/8"	7 1/2"

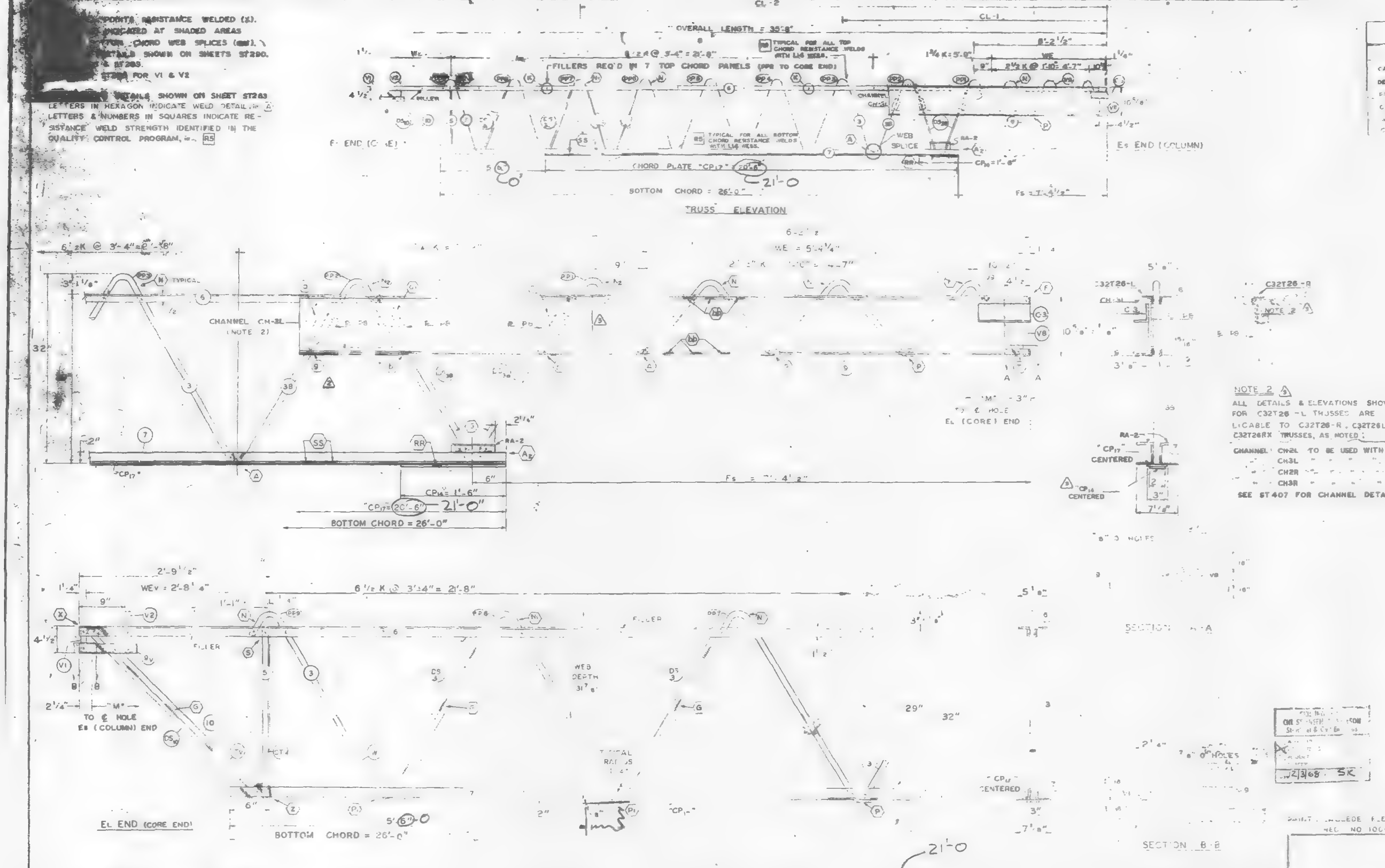
PAINT LACLEDE ELECTROCOAT RED NO. 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T26-L 35'-8" OVERALL (SEE NOTE NO. 2)
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-ABI-23	PLATE
APPROVED FOR FABRICATION BY ___ FOR P.O.N.Y.A	DATE 11/7/68	DRAWN BY: ___ DATE SEPT. 23, 1968	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY: T.M.CHURA DATE SEPT. 24, 1968	IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 226



NOTE 2 (3)
ALL DETAILS & ELEVATIONS SHOWN FOR C32T26-L TRUSSES ARE APPLICABLE TO C32T26-R, C32T26LX & C32T26RX TRUSSES, AS NOTED:

CHANNEL CH2L TO BE USED WITH C32T26LX
CH3L — C32T26L
CH2R — C32T26R
CH3R — C32T26RX

SEE ST 407 FOR CHANNEL DETAILS

LETTERS IN HEXAGON INDICATE WELD DETAIL. LETTERS & NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM.

NO	DATE	REVISION	BY
3	11-14-68	AS NOTED	LWH
2	11-7-68	AS NOTED	LWH
1	10-31-68	AS NOTED	LWH

REF DRWG.

7-ABI-23	10-4-68
7-ABI-52	2-15-68
7-ABI-53	7-22-68
7-ABI-54	10-4-68
7-AB4-53-56	10-4-68
SA-124	10-11-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA.	LENGTH	NO. OF "K" SEE NOTE	FILLER NO.	DIA.	"M" C HOLE	CONNECTION FILLERS	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK	TYPE STEEL	PCS.	SIZE	LENGTH	CHANNEL ANGLE MK	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
									3	A242	L14	40'-11¼"	6½ K @ 3'-4" = 21'-8"																		
C32T26-L	6	A242	2"x1½"x.37	35'-8"	7	A36	3"x2"x.33	26'-0"	3S	A242	L14	10'-7⅝"	1¾ K @ 3'-4" = 5'-9"	7	L14	35'-2¾"		CP17	A36	3"x¾"	20'-6" (21'-0)	P8	A36	3	4½x3/8	3'-7½"	C-3	A36	3"x2"x¼"	9"	

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	PCS	END STIFFENER MK V8 TYPE STEEL	DIA	LENGTH	MK V9 TYPE STEEL	DIA	LENGTH	MK V10 TYPE	DIA	LENGTH	CHANNEL MK	TYPE STEEL	CHANNEL SIZE	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
	C32T26-L	8	A242	3"x1½"x.25	2	10'-4½"	5'-4¼"	DS 3B	A242	L14	2'-6¾"	2	A242	L14	10½"	A242	L14	6'-3⅞"				CH3L	A36	10 [20	10'-6"	CP14	A36	3"x⅝"	1'-6"

CHECK DIMENSION FOR FAB. LOCATION OF TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
12'-10½"	26'-2½"	—	—	7'-4½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEV	DIAGONAL "TV" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STV" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	PCS	DOUBLE STRUT TYPE STEEL	DIA	LENGTH	MK
	C32T26-L	9V	A242	2"x1½"x.25	10"	2'-8¼"	10	A242	L14	3'-6¼"	5	A242	L14	2'-4⅞"	A242	L14	4⅜"	A242	L14	7⅜"	—	—	—	DS 3	A242	.92	2'-6¾"	2	A242	.92	3'-6¼"	DS 10

REINF ANGLES

MK	TYPE STEEL	SIZE	LENGTH
RA-2	A36	3½x2½x.35	7½"

PAINT: LACLEDE ELECTROCOAT NEC NO 1000

STEEL TRUSS DETAILS FOR WORLD TRADE CENTER - N.Y.C. THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T26-L 35'-8" OVERALL (SEE NOTE NO.2)
WORLD TRADE CENTER TOWERS A-B

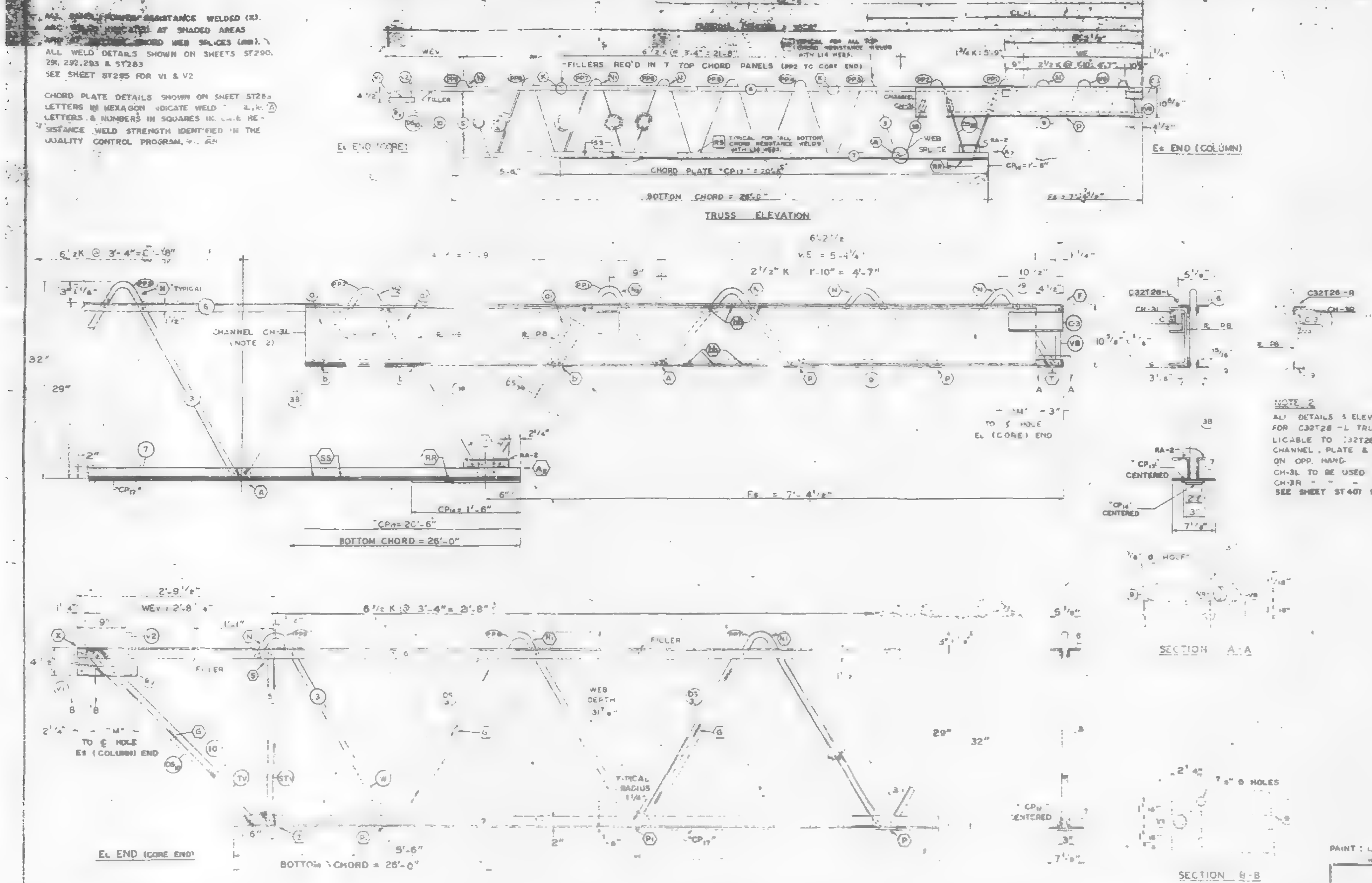
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-ABI-23
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.
DRAWN BY — DATE SEPT. 23, 1968
APPROVED FOR FABRICATION BY FOR FABRICATOR
CHECKED BY: T.H. CHURA DATE SEPT 23, 1968
DETAILED BY A. CARL WEBER
FABRICATION CONT. NO. WTC 221
SHEET NO. ST 226

ALL [illegible] RESISTANCE WELDED (X).
ARC [illegible] AT SHADED AREAS
[illegible] CHORD WEB SPLICES (RR).
ALL WELD DETAILS SHOWN ON SHEETS ST290, 291, 292, 293 & ST283
SEE SHEET ST295 FOR V1 & V2

CHORD PLATE DETAILS SHOWN ON SHEET ST283
LETTERS IN HEXAGON INDICATE WELD [illegible]
LETTERS & NUMBERS IN SQUARES IN[illegible] RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, [illegible]

FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	7/8"	3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	[illegible] 1/4"
OVERALL LENGTH	35'-8"	3/8"
WEB DEPTH	31 7/8"	± 1/4"
CL DIMENSIONS		± [illegible]



NOTE 2
ALL DETAILS & ELEVATIONS SHOWN FOR C32T26-L TRUSSES ARE APPLICABLE TO C32T26-R TRUSSES WITH CHANNEL, PLATE & ANGLE C-L PLACED ON OPP. HAND
CH-3L TO BE USED WITH C32T26-L
CH-3R " " " " C32T26-R
SEE SHEET ST407 FOR CHANNEL DETAILS.

REF. DRWG. 7-ABI-23 8-12-68; 7-ABI-52 2-15-68; 7-ABI-53 7-22-68; 7-ABI-54 8-15-68; 7-AB4-53-56 8-5-68; SA-124 8-1-68

PAINT: LACLEDE ELECTROCOAT RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF "K"	FILLER NO.	DIA.	"M" C/C HOLE	CONNECTION FILLERS	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	CHANNEL PLATES MK.	TYPE STEEL	PCS.	SIZE	LENGTH	CHANNEL ANGLE MK.	TYPE STEEL	SIZE	LENGTH	TRUSS DATA
C32T26-L	6	A242	2"x1 1/2"x .[illegible]	35'-8"	7	A36	3"x 2"x .33	26'-0"	38	A242	1.16	10'-7 3/8"	13/4 [illegible]	7	1.14	35'-2 1/2"		CP17	A36	3"x 1/2"	20'-6"	P8	A36	3	[illegible]	[illegible]	C-3	A36	3"x2"x 1/2"	[illegible]	-

	END	TRUSS DESIGNATION	MK.	TYPE STEEL	CHORD SIZE	PCS	LENGTH	WE	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS	END STIFFENER MK. V8 TYPE STEEL	DIA.	LENGTH	MK. V9 TYPE STEEL	DIA.	LENGTH	MK. V10 TYPE STEEL	DIA.	LENGTH	CHANNEL MK.	TYPE STEEL	CHANNEL SIZE	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH
COLUMN END	END	C32T26-L	8	A242	2x1 1/2 x.25	2	19'-4 1/2"	5'-9 1/4	DS 38	A242	1.14	2'-8 3/4"	2	A242	1.16	10 1/2"	A242	1.14	8'-3 7/8"				CH3L / CH3R	A36	10 230	10'-0"	CP 16	A36	[illegible]	1'-6"

CHECK DIMENSION FOR FAB — LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
12'-10 1/2"	26'-2 1/2"	—	—	7'-4 1/2"

	END	TRUSS DESIGNATION	MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	PCS.	DOUBLE STRUT TYPE STEEL	DIA.	LENGTH	MK.
CORE END	END	C32T26-L	9V	A242	2"x1 1/2" x .25	10"	2'-8 1/4	10	A242	1.14	3'-6 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 5/8"	A242	1.14	7 3/8"	—	—	—	DS 12	A242	.92	2'-8 3/4"	2	A242	.92	3'-8 1/4"	DS 10

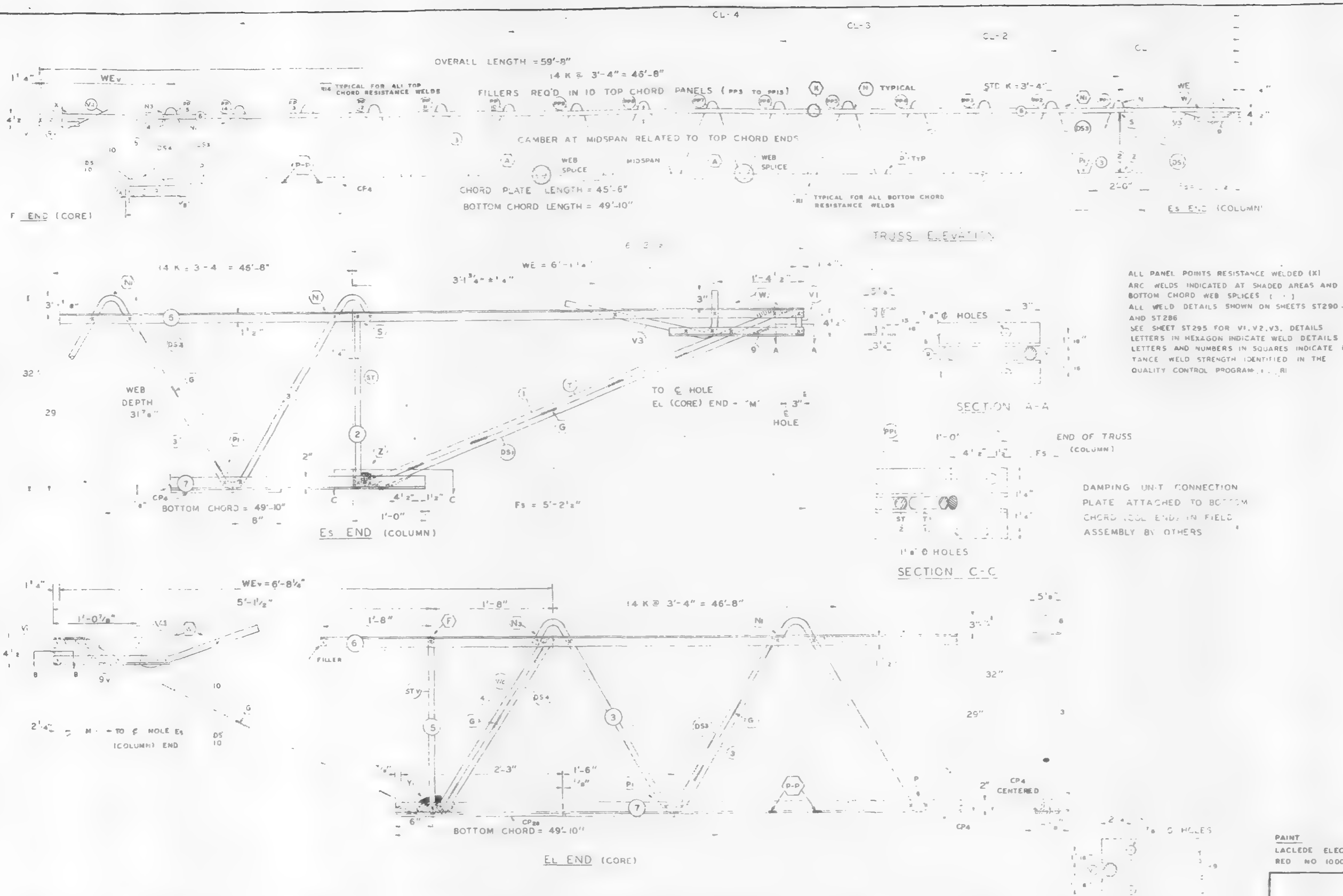
REINF. ANGLES (2 REQ'D)

MK.	TYPE STEEL	SIZE	LENGTH
RA-2	A36	[illegible]	7 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T26-L 35-8 OVERALL (SEE NOTE NO.2)
WORLD TRADE CENTER TOWERS A B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
DETAILED BY [illegible]
DESIGN DRAWING NO. 7-ABI-23
DRAWN BY [illegible] DATE SEPT 23, 1968
CHECKED BY T.M. [illegible] DATE SEPT 24, 1968
ST 226-L



FABRICATION REQUIRMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	15 16"	± 3/8"
DESIGN DEPTH	29"	± 1 4"
PANEL "K"	3'-4"	± 1 4"
OVERALL LENGTH	59'-8"	± 3 8"
WEB DEPTH	31 7 8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ( )
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ... RI

NO	DATE	REVISION	BY

REF DRWG

7-AB1-24	1-6-69
7-AB4-30	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C C HOLES	CONNECTION FILLERS			CHORD PLATE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
32T27C-598	6	A242	2" x 2" x .31	59'-8"	7	A36	3" x 2" x .37	49'-10"	3	A242	1.14	88'-1¼	14 @ 3'-4" = 46'-8"	11	1.14	59-2¾"	—	—	—	CP4	A36	4" x 375"	45'-6"	CP28	A36	4" x .375"	2'-3"

COL'N END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
		32T27C-598	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛	2	A242	1.14	2'-4⅞"	A242	1.14	4⅝"	A242	1.14	2'-9½"	DS1	A242	.75	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

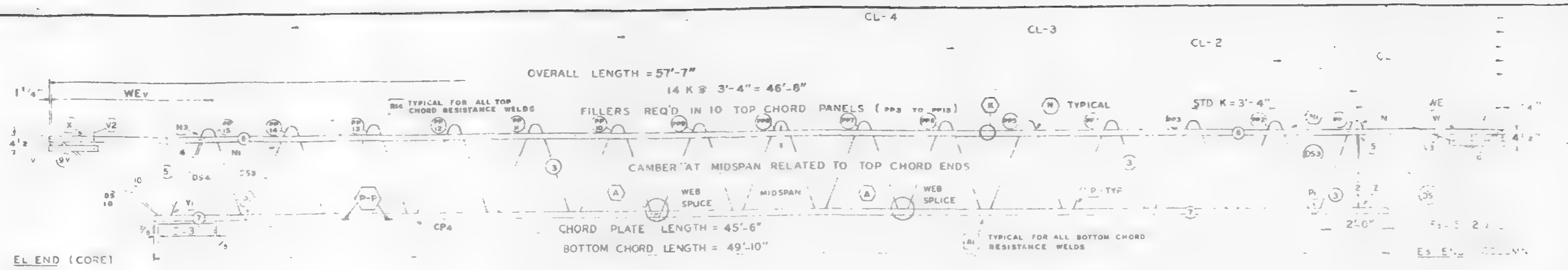
CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	STL	DIA	LENGTH
		C32T27C-598	9	A242	2"x1½"x.37	1'-6"	6'-8¼	10	A242	1.14	5'-4¼	5	A242	1.14	2'-4⅞"	A242	1.14	4½"				A242	1.14	2'-2½"	4	A242	1	1.14	2'-	DS4	A242	.75	2'-9½"	DS10	A242	.75	5'-4¼"	DS3	A2-	.75	2'-6¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T27 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B

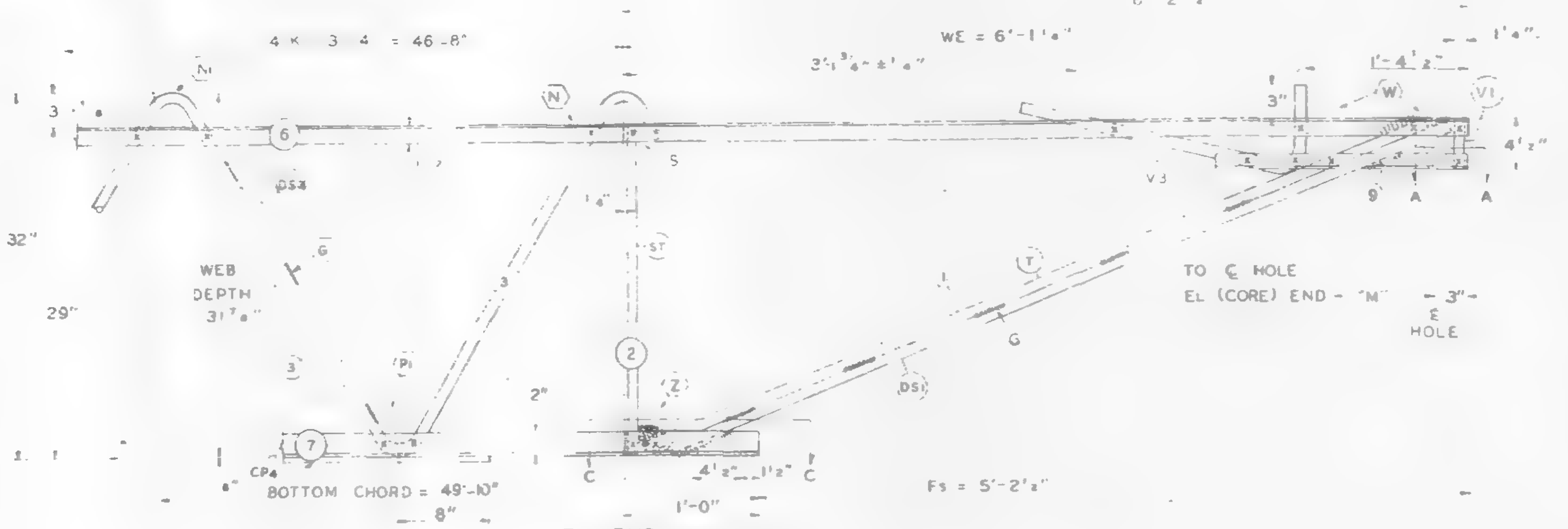
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-24	PLATE
APPROVED FOR FABRICATION BY [signature] FOR PONYA	DATE 6/4/69	DRAWN BY L.B. DATE APRIL 17, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.CHUBA DATE APRIL 17, 1969	IN CHARGE OF PROD DEV.
DETAILED BY A C WEBER		FABRICATION CONT NO. WTC 221	SHEET NO. ST227C



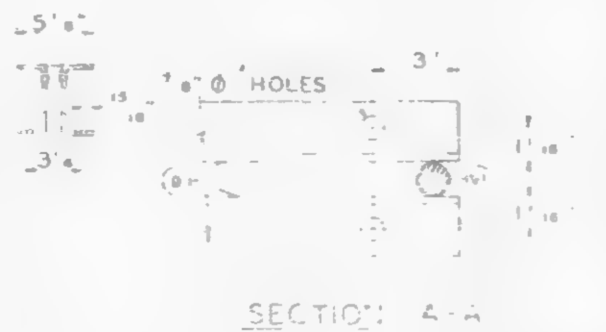
TRUSS ELEVATION

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



Es END (COLUMN)

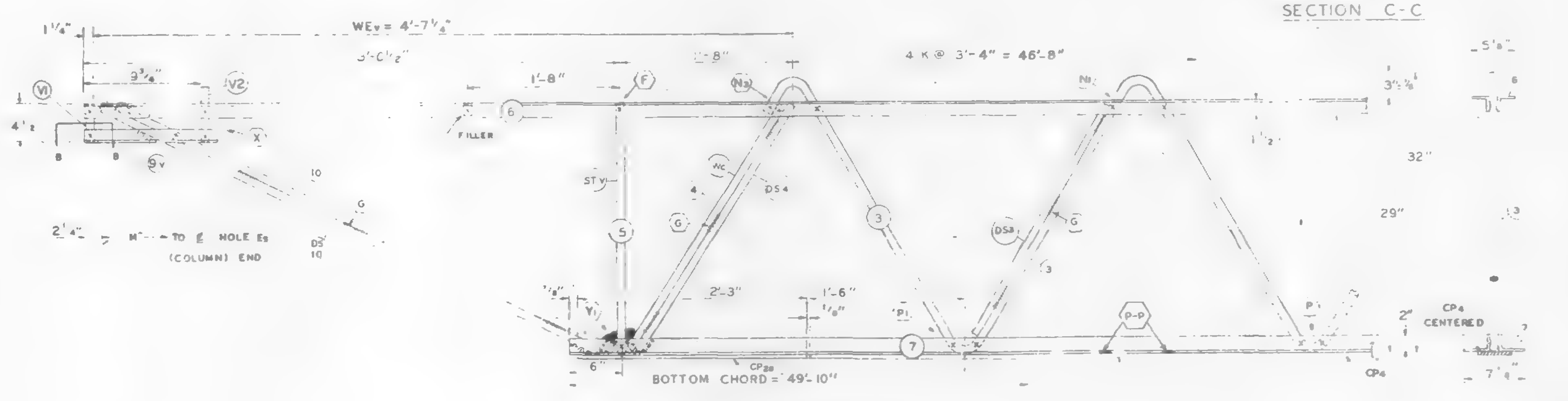
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES ( )
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM



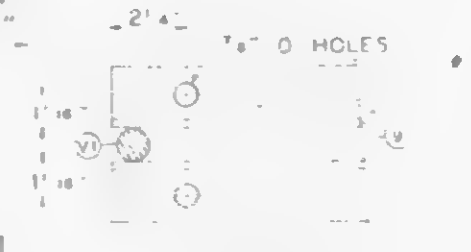
SECTION A-A

SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

NC	DATE	REVISION	BY

REF DWG	
7-AB1-24	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
REQ NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	DIA.	"M" C/C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T2 577	6	A242	2"x1 1/2"x.31	57'-7"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1/4	14 @ 3'-4" = 46'-8"	11	1.14	57'-1 3/4	—	—	—	CP4	A36	4"x.375"	45'-6"	CP20	A36	4"x.375	2'-3"

COLUMN END	Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH.
	C32T27P 577	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/8"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	.75	6'-3 1/8"

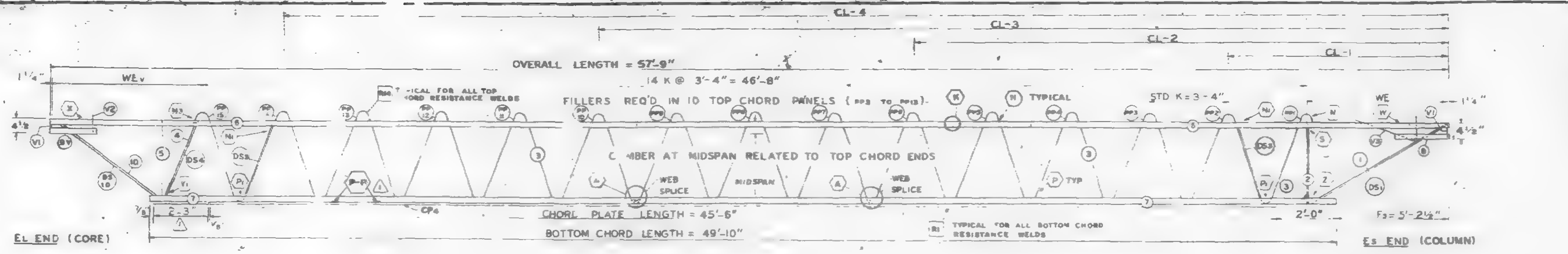
CHECK DIMENSION FOR TRUSS F LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END	EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT (REQ'D) MK	TYPE STEEL	DIA	LENGTH
	C32T27P 577	9	A242	2"x1 1/2"x.37	1 3/4"	4'-7 1/2	10	A242	1.14	3'-7"	5	A242	1.14	2'-4 1/8"	A242	1.14	4 3/8	A242	1.14	7 3/8	—	—	—	4	A242	1	1.14	[illegible] 1/2"	DS4	A242	.75	2'-9 1/2"	DS10	A242	.75	3'-7"	DS3	[illegible] 42	.75	2'-6 3/4"

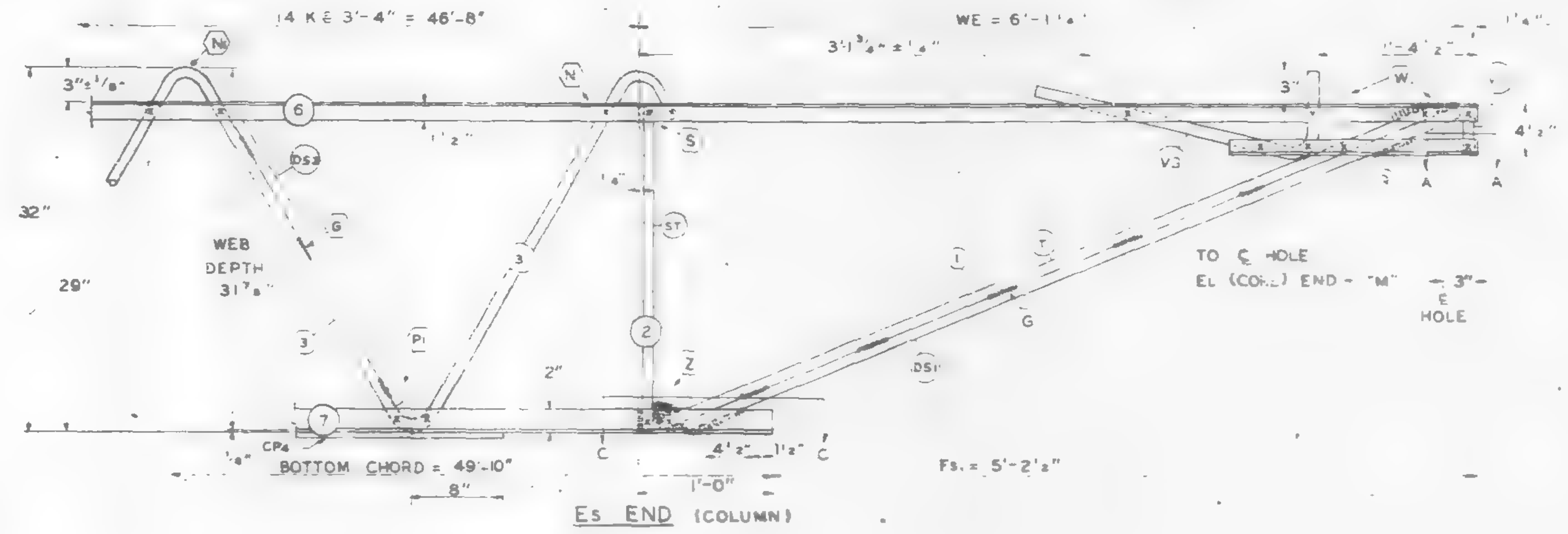
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T27P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

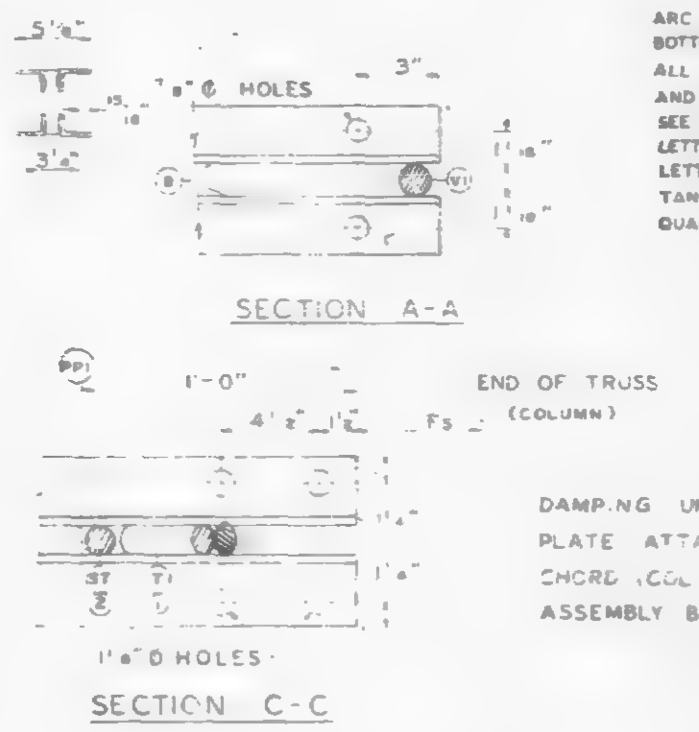
FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO 7-AB1-24	PLATE
APPROVED FOR FABRICATION BY [signature] FOR PONYA — DATE 6/4/69	DRAWN BY [illegible] DATE APRIL 17, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY T.H.CHIRA DATE APRIL 17, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A C WEBER	FABRICATION CONT NO. WTC 221	SHEET NO. ST227P



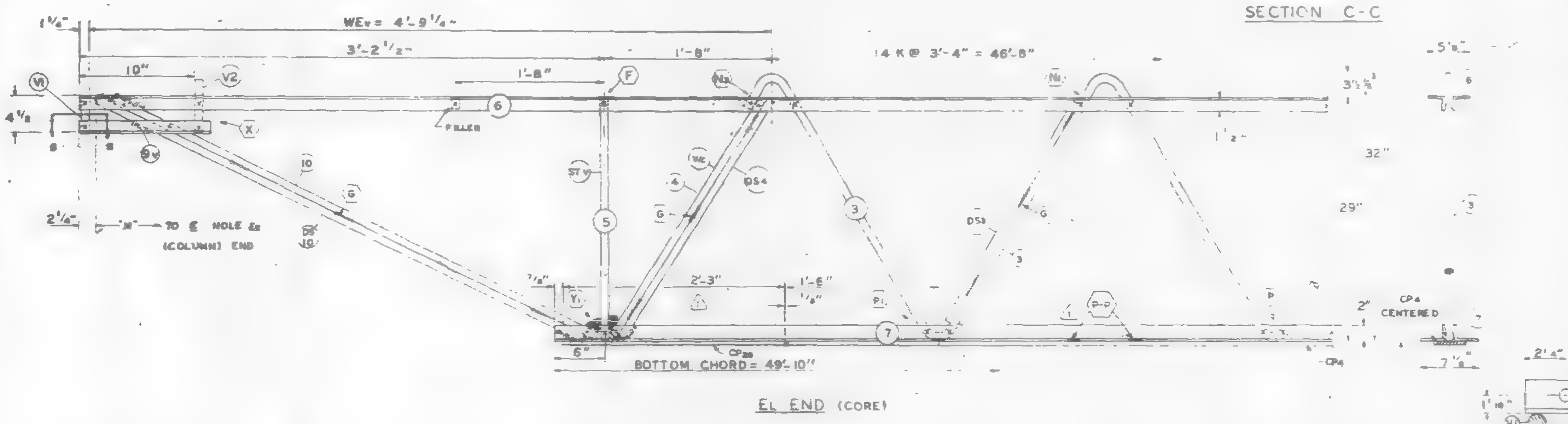
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	±
OVERALL LENGTH	57'-9"	3/8"
WEB DEPTH	31 7/8"	± 1/4"

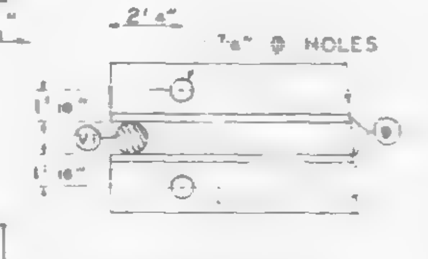


ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND A.
BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e. [R1]



DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS





NO.	DATE	REVISION	BY
1	2-14-69	AS NOTED	G.D.C.

REF DRWG.

7-AB1-24	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				CHORD PLATE ⚠1			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T27N 579	6	A242	2"x1½"x.31	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"	–	–	—	CP4	A36	4"x.375"	45'-6"	CP28	A36	4"x.375"	2'-3"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFF MK V1						DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LGTH	MK	TYPE STEEL	DIA	LGTH
C32T27N-579	9	A242	2"x1½"x.37 ⚠1	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	[illegible]	1.14	2'-5[illegible]"	DS1	A242	.75	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6⅞"	5'-2½"

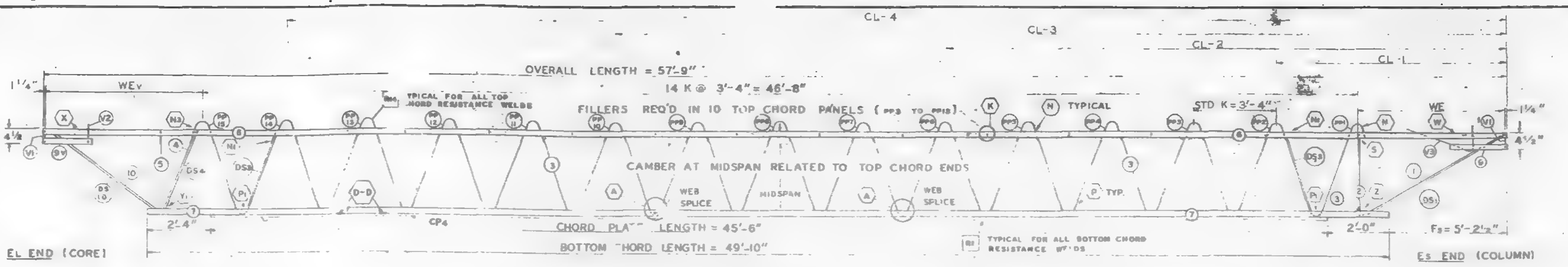
CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT ⚠1				VERTICAL "STv" STRUT				END STIFFENER MK V1			MK V2			MK V4			WEB "WC"					DOUBLE STRUT				DOUBLE STRUT ⚠1				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T27N 579	9	A242	2"x1½"x.37 ⚠1	1'-0"	4'-9¼"	10	A242	1.14	3'-8¼"	5	A242	1.14	2'-4⅝"	A242	1.14	4⅜	A242	1.14	7⅝	—	—	—	4	A242	1	1.14	2'-9½"	DS4	A242	.75	2'-9½"	DS10	A242	.75	3'-8¼"	DS3	A242	.75	2'-6¾"

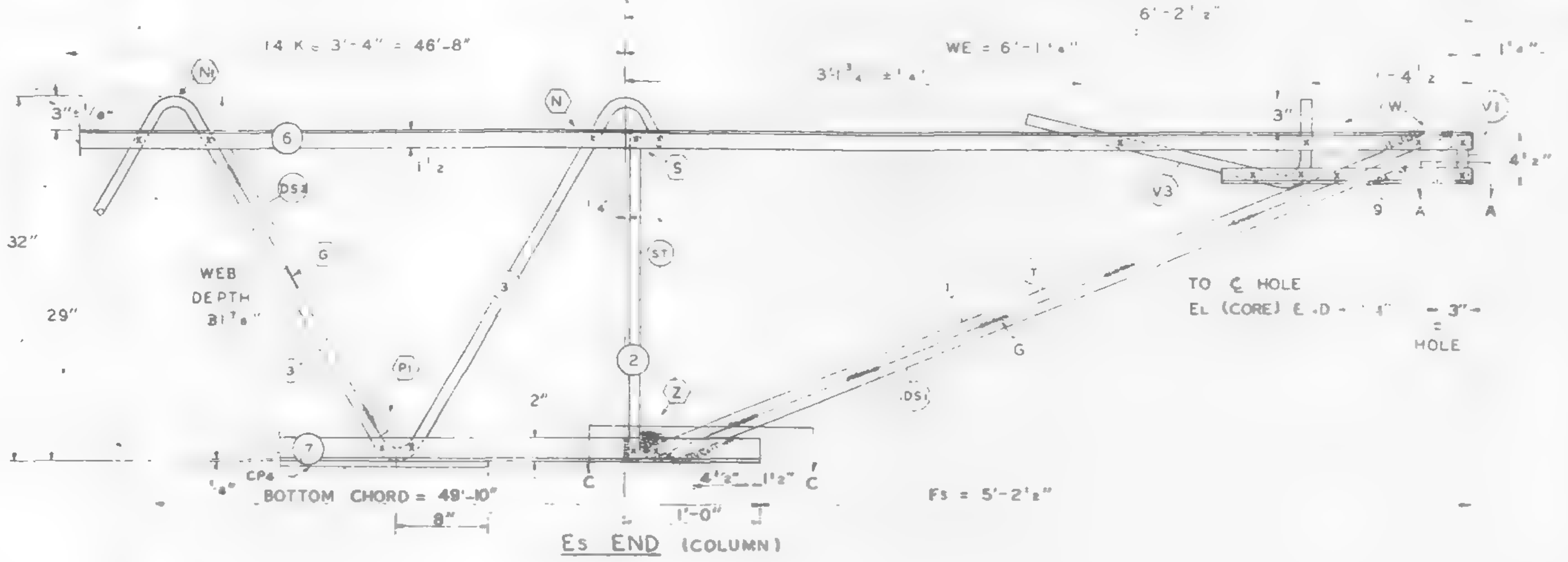
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T27N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

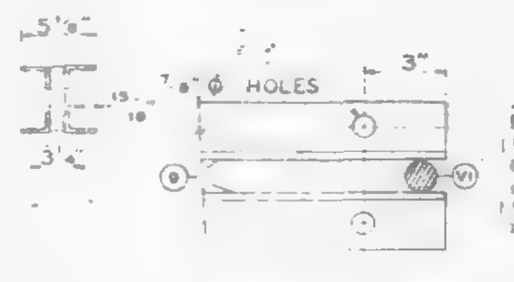
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-24 PLATE
APPROVED FOR FABRICATION [signature] FOR P.O.N.Y.A. DATE
DRAWN BY: [illegible] DATE: JAN. 20, 1969
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE
CHECKED BY: [illegible] DATE: JAN. 21, 1969
DETAILED BY LACLEDE STEEL CO.
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST2[illegible]



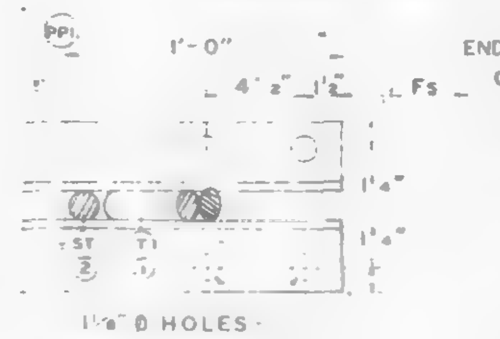
TRUSS ELEVATION



Es END (COLUMN)



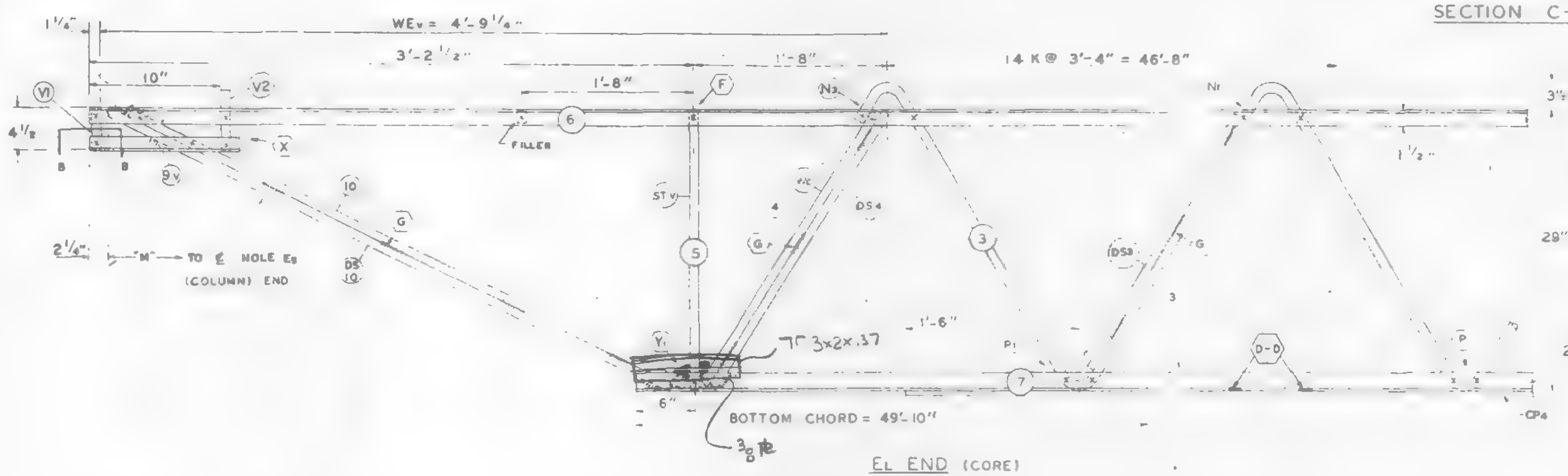
SECTION A-A



SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST267.
SEE SHEET ST295 FOR V1.V2.V3. DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie., [R1]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.



EL END (CORE)

SECTION B-B

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	5"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4

REF DRWG.

7-AB1-24	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF K	FILLER NO	DIA.	"M" C/C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T27N-579	6	A242	2"x1½"x.31	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"	—	—	—	CP4	A36	4"x.375"	45'-6"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH.
	C32T27N-579	9	A242	2"x1½"x.25 (.31)	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	.75	6'-3⅛"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK.	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT (2) (REQ'D) MK	TYPE STEEL	DIA	LENGTH
	C32T27N579	9	A242	2"x1½"x.25 (.31)	2'-0"	4'-9¼"	10	A242	1.14	3'-7⅜"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-9½"	DS4	A242	.75	2'-9½"	DS10	A242	.75	3'-7⅜"	DS3	A242	.75	2'-8¾"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

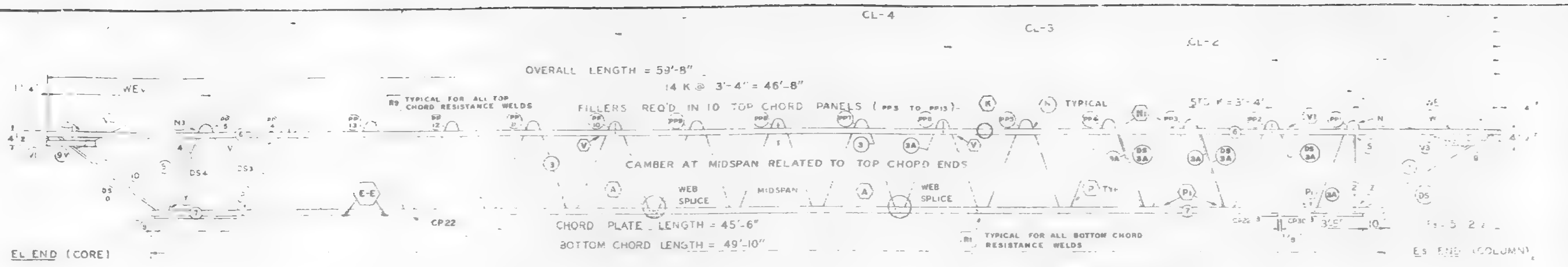
SKILLING · HELLE · CHRISTIANSEN · ROBERTSON
2/19/69 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T27N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

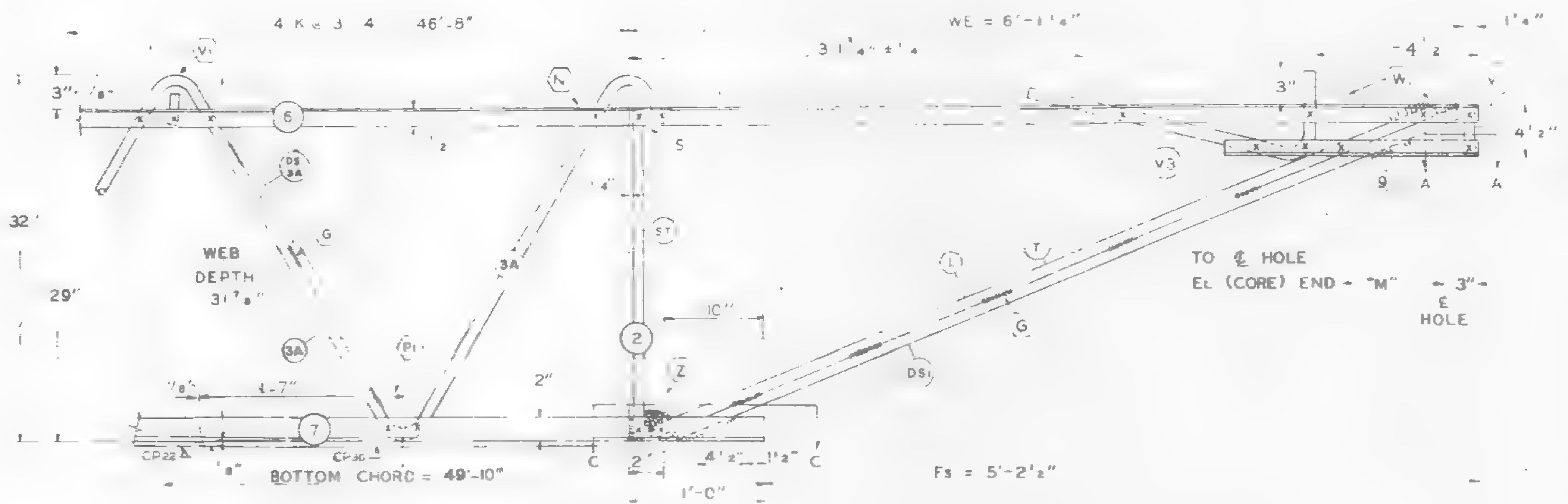
FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-24 PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A. DATE	DRAWN BY: DATE: JAN. 20, 1969
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR DATE.	CHECKED BY: T.M.CHIRRA DATE: JAN. 21, 1969 — IN CHARGE OF PROD. DEV.
DETAILED BY:	FABRICATION CONT. NO. W.T.C. 221 — SHEET NO. ST227N

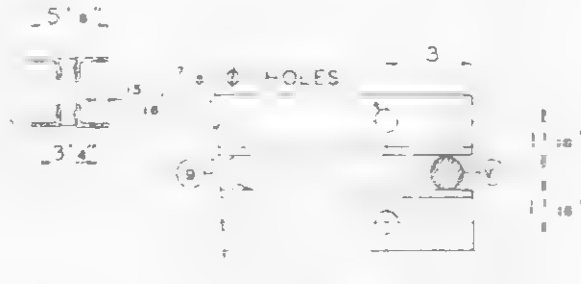


TRUSS ELEVATION

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	15 16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

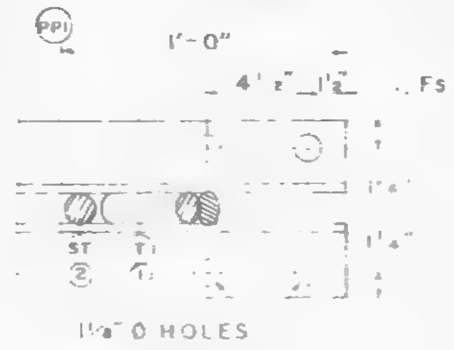


Es END (COLUMN)



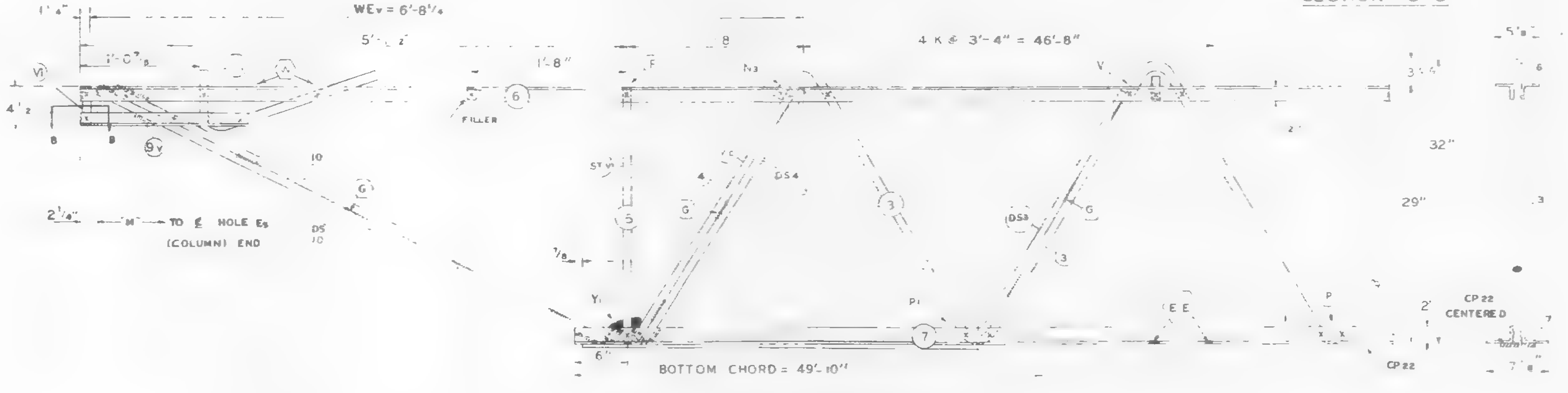
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e. R1



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY OTHERS



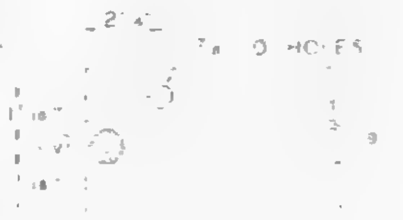
EL END (CORE)

NO	DATE	REVISION	BY

REF DRWG

7-AB1-25	1-6-68
7-AB4-50	8-1-68
7-AB3-41	1-6-68
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001



SECTION B-B

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C.C HOLES	CONNECTION FILLERS			CHORD PLATE				(3) (REQ'D) DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T28C59		A242	2"x1 1/2"x.37"	[illegible]'-9"	7	A36	3"x2"x.37	49'-10"	3 3A	A242 A242	1.14 1.14	53'-4 3/4 34'-8 1/2	8 1/2 K@3'-4" = 28'-4" 5 1/2 K@3'-4" = 18'-4"	11	1.14	59'-2 1/4"	4	1.14	3"	CP 22	A36	6 1/2"x.50	45'-6"	DS 3A	A242	.92	2'-8 3/4"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
	C3[illegible]C[illegible]59	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS 1	A242	.98	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CHORD PLATE			
MK	TYPE STEEL	SIZE	LENGTH
CP 30	A36	6 1/2 x 50	[illegible]

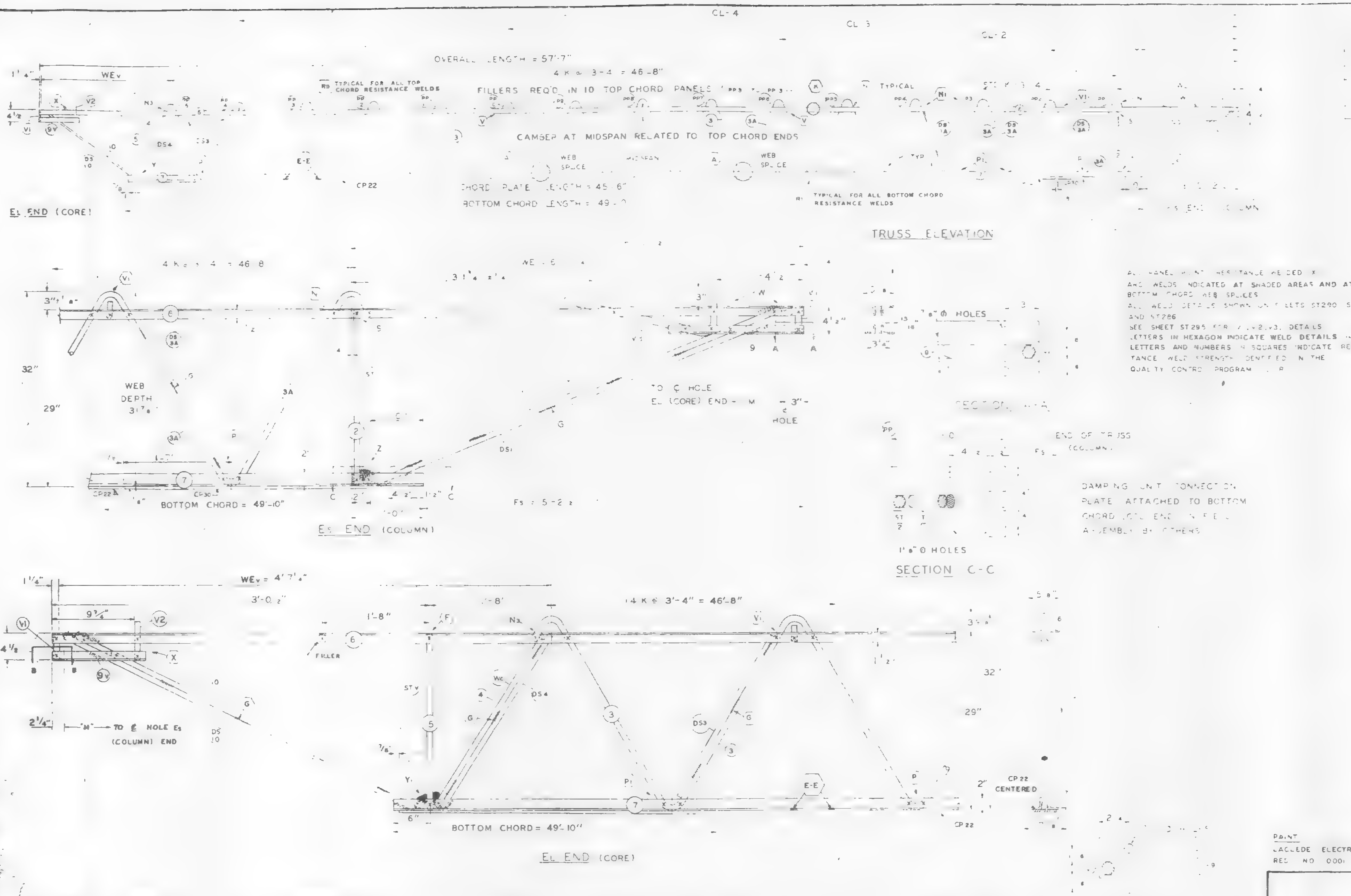
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	LENGTH
	C32T28C 598	9	A242	2"x1 1/2"x.37	1'-6"	6'-8 1/4"	10	A242	1.14	5'-4 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"				A242	1.14	2'-2 1/2"	4	A242	1	1.14	2'-9 1/2"		A242	.98	2'-9 1/2"	DS 10	A242	.98	5'-4 1/4"	DS 3	A242	2'-6 3/4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T28C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-25	PLATE
APPROVED FOR FABRICATION FOR PONYA — DATE 6/4/69	DRAWN BY: [illegible] DATE: APRIL 17, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR — DATE	CHECKED BY: T.M.CHIBA DATE APRIL 17, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A. C. WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST228C



ALL PANEL POINT RESISTANCE WELDED X
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS IN TA
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM

FABRICATION REQUIRMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	5/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL PT	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	3 7/8"	± 1/4"

NO	DATE	REVISION	BY

REF DRWG

7-AB1-25	1-6-68
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	CONNECTION FILLERS			CHORD PLATE				(3) (REQ'D) DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T28P5	6	A242	2"x1½"x .37"	57'-7"	7	A36	3"x2"x .37	49'-10"	3 / 3A	A242 / A242	1.14 / 1.14	53'-4 3/4 / 34'-8 1/2	8 1/2 K@3'-4" - 28'-4" / 5 1/2 K@3'-4" - ...	11	1.14	57'-1¾"	4	1.14	3"	CP 22	A36	6½"x .50	45'-6"	DS 3A	A242	.92	2'-6¾"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T1" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V			END STIFFENER MK V3			DOUBLE STRUT			
END		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
C	28P 577	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	.98	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	2'2"

TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T28P57	9	A242	2"x1½"x .37	11¾"	4'-7¼"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅝"				4	A242	1	1.14	2'-9½"	4	A242	.98	2'-9½"	DS10	A242	.98	3'-7"	DS3	A242	.98	2'-6¾"

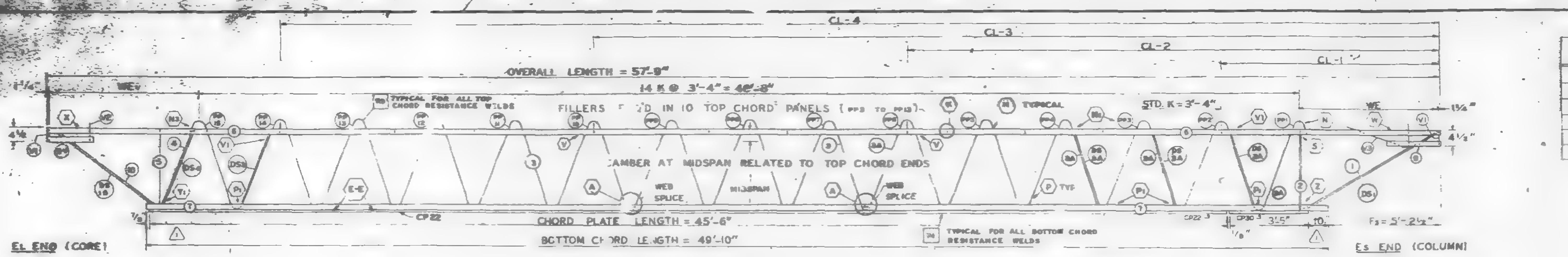
PAINT
LACLEDE ELECTROCOAT
REF NO 0001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T28P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-25 PLATE
APPROVED FOR FABRICATION BY FOR PONYA DATE 6/4/69
DRAWN BY: DATE APRIL 25, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY T.M.CHURA DATE APRIL 25, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A C WEBER
FABRICATION CONT NO W T C 221
SHEET NO. ST228P

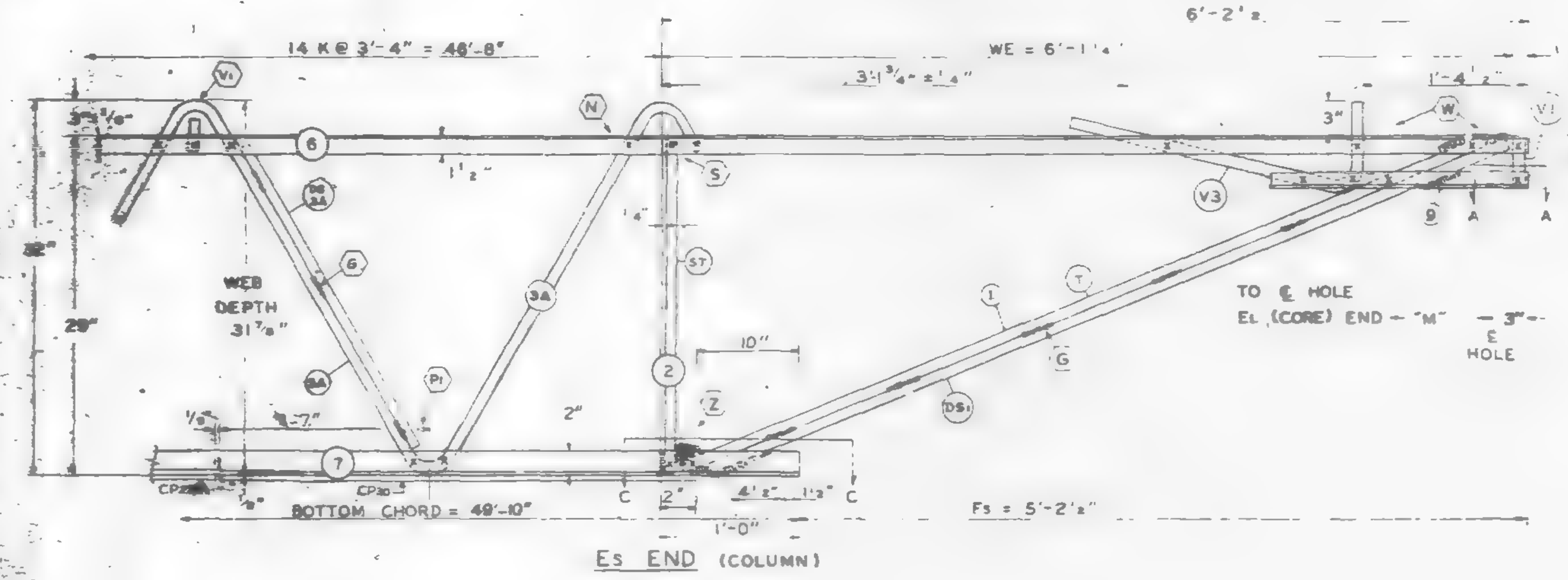
[illegible]		
	[illegible]	[illegible]
CAMBER AT [illegible]	[illegible]	[illegible]
DESIGN DEPTH	[illegible]	4"
PANEL "K"	3'-4"	4"
OVERALL LENGTH	5' 3"	3/8"
WEB DEPTH	31 7/8"	1/4"



EL END (CORE)

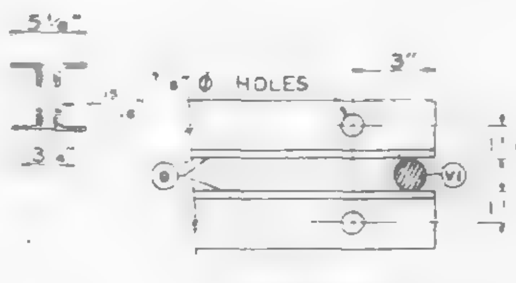
Es END (COLUMN)

TRUSS ELEVATION

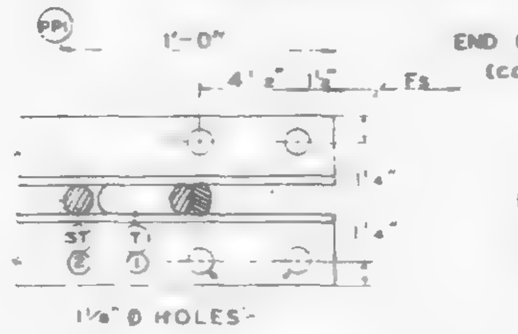


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST296 ⚠1
SEE SHEET ST295 FOR V1.V2.V3. DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e. R1

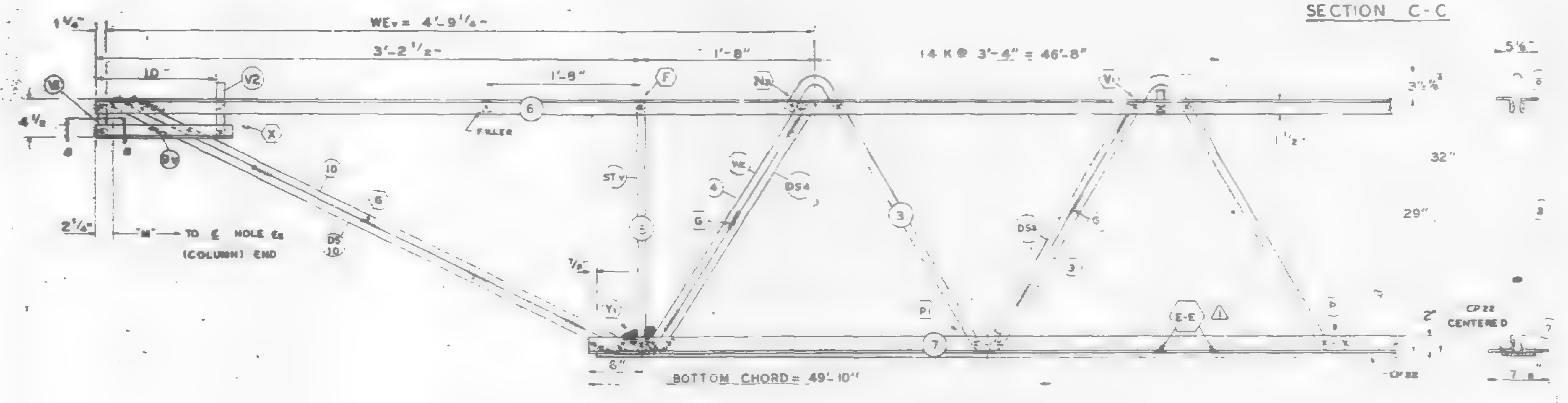


SECTION A-A

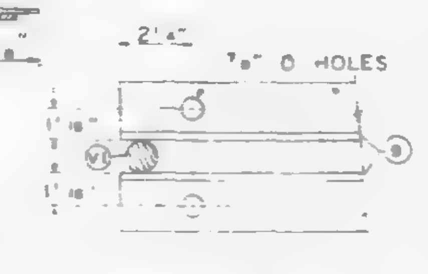


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

NO	DATE	REVISION	BY
⚠1	2-18-69	AS NOTED	T.M.C.

REF DRWG.

7-A81-25	1-8-68
7-A84-30	8-1-68
7-A83-41	1-6-69
7-A81-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	CONNECTION FILLERS			CHORD PLATE				(3) REQ'D DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T28N-579	6	A242	2"x1½"x.37"	57'-9"	7	A36	3"x2"x.37	49'-10"	3 / 3A	A242 / A242	1.14 / 1.14	[illegible]	[illegible]	11	1.14	57'-3¾"	4	1.14	3"	CP 22	A36	6½"x.50	45'-6"	DS 3A	A242	.92	2'-6¾"

COLUMN END	Es END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			MK 3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
	C32T28N-579	9	A242	2"x1½"x.37"	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	[illegible]	DS	A242	.98	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CHORD PLATE ⚠1			
MK	TYPE STEEL	SIZE	LENGTH
CP 30	A36	6½ x .50	3'-5"

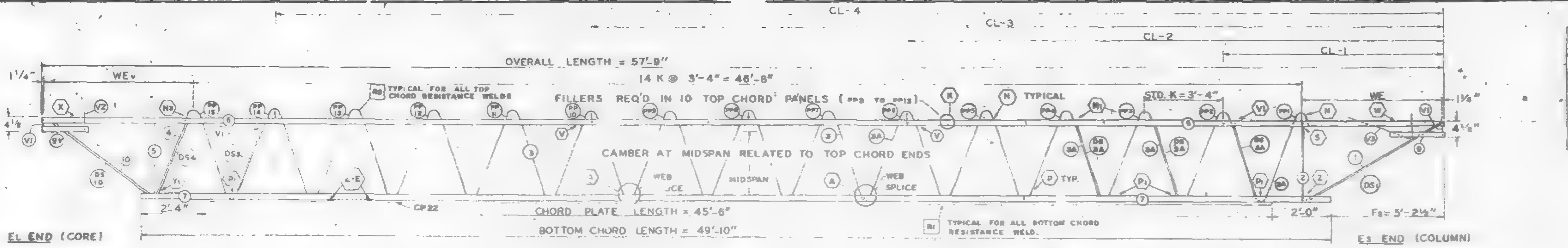
CORE END	EL END TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT ⚠1				VERTICAL "STv" STRUT				END STIFFENER MK V1			MK V2			MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT ⚠1				DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T28N-579	9	A242	2"x1½"x.37	1'-0"	4'-9¼"	10	A242	1.14	3'-8¼"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅞"				4	A242	1	1.14	2'-9½"	DS 4	A242	.98	2'-9½"	DS 10	A242	.98	3'-8¼"	DS 3	A242	.98	2'-6¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.

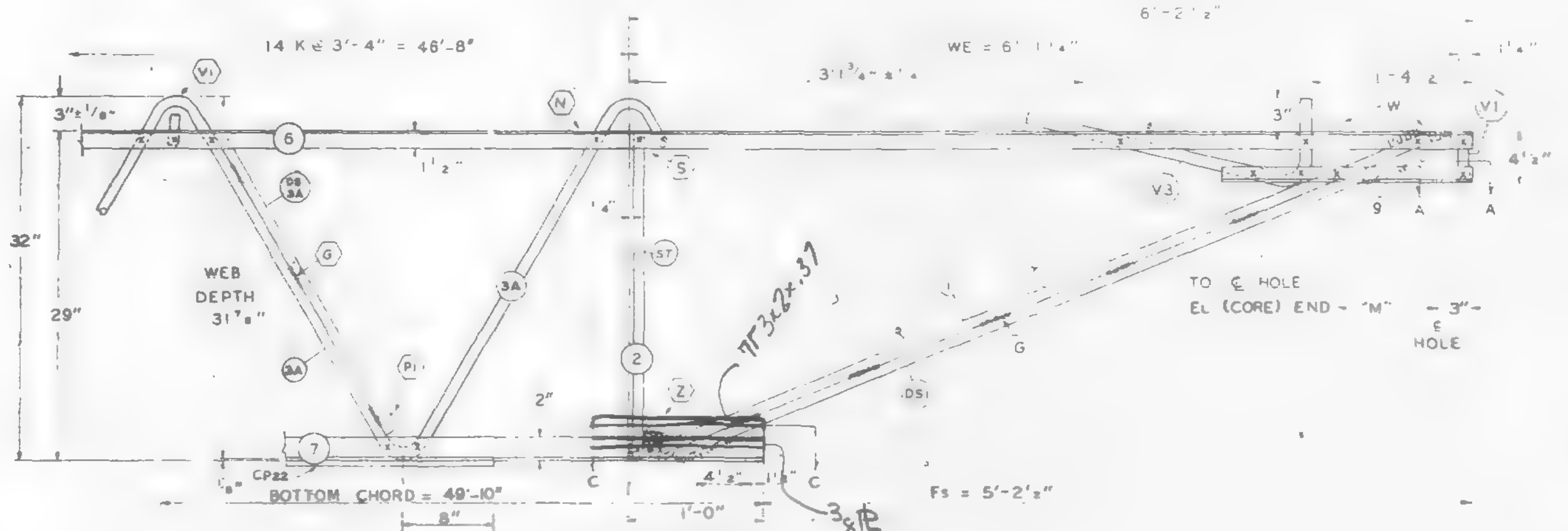
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T28N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

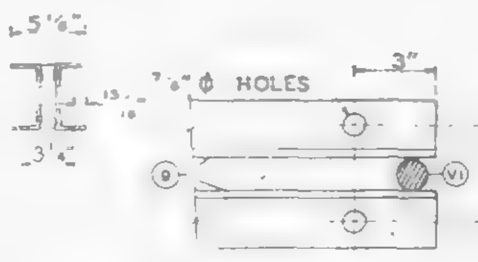
FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A81-25	PLATE
APPROVED FOR FABRICATION [signature] FOR P.O.N.Y.A.	DATE [illegible]	DRAWN BY: [illegible] DATE: JAN. 20, 1969	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY: [illegible] DATE: JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST22[illegible]



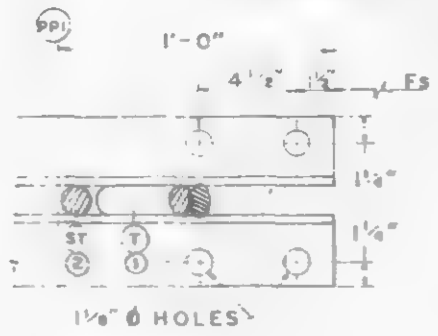
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A

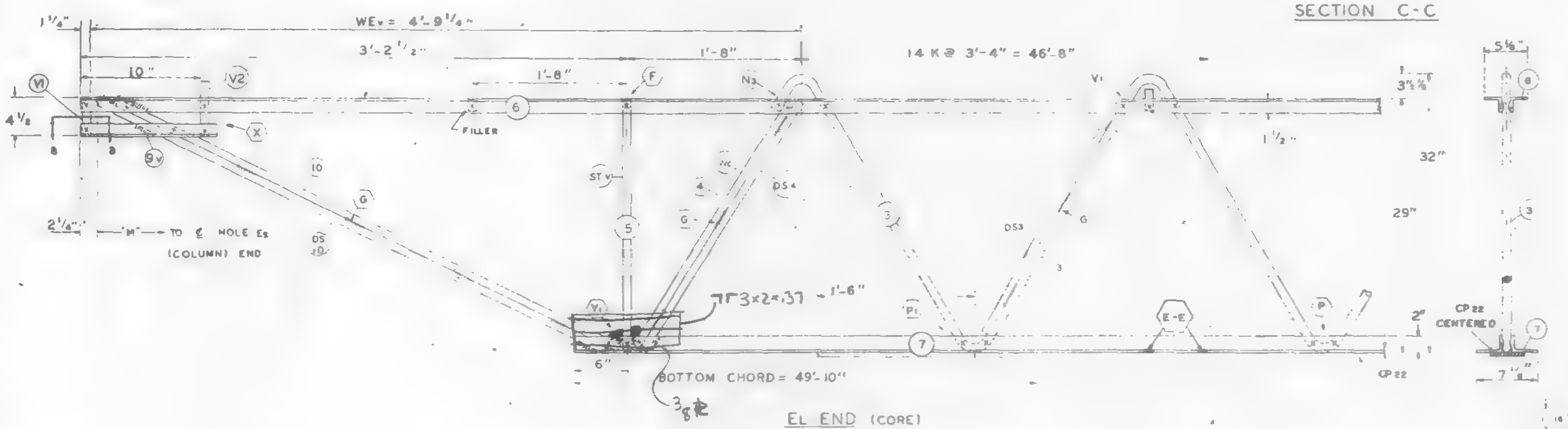


SECTION C-C

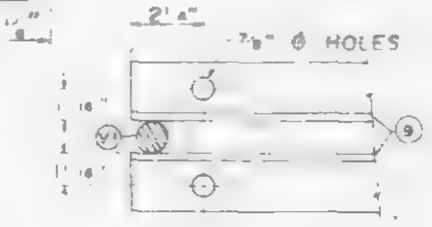
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST287
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., [R1]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	1/4"
OVERALL LENGTH	57'-9"	- 3/8"
WEB DEPTH	31 7/8"	± 1/4"



EL END (CORE)



SECTION B-B

REF DRWG.

7-AB1-25	1-8-68
7-AB4-30	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" C-C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	(3) REQ'D DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T28N-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3 / 3A	A242 / A242	1.14 / 1.14	53'-4 3/4 / 34'-8 1/2	8 1/2 K@3'-4" = 28'-4" / 5 1/2 K@3'-4" = 18'-4"	1	1.14	57'-3¾	4	1.14	3"	CP 22	A36	6½"x.50	45'-6"	DS 3A	A242	.92	2'-6¾"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T28N-579	9	A242	2"x1½"x.25	2'-3"	6'-[illegible]"	1	A242	1.14	6'-3⅛	2	A242	1.14	2'-4⅛"	A242	1.14	4⅜	A24[illegible]	[illegible]4	2'-9½"	DS	A242	.96	6'-3⅛

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T28N-579	9	A242	2"x1½"x.25 (.37)	1'-0"	4'-9¼	10	A242	1.14	3'-7⅝	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜	A242	1.14	7⅜				4	A242	1	1.14	2'-9½"	DS4	A242	.98	2'-9½"	DS10	A242	.98	3'-7⅝	DS3	A242	.98	2'-6¾"

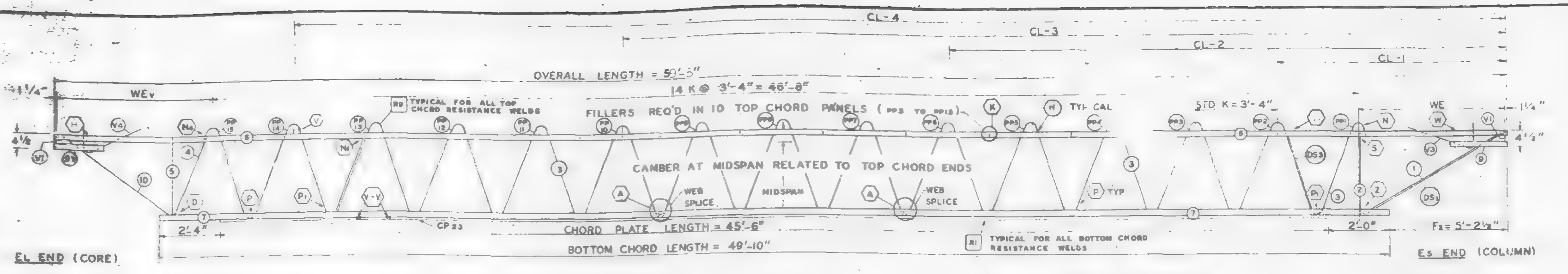
SKILLING HELLE CHRISTIANSEN & ROBERTSON
X
2/9/69 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T28N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A&B

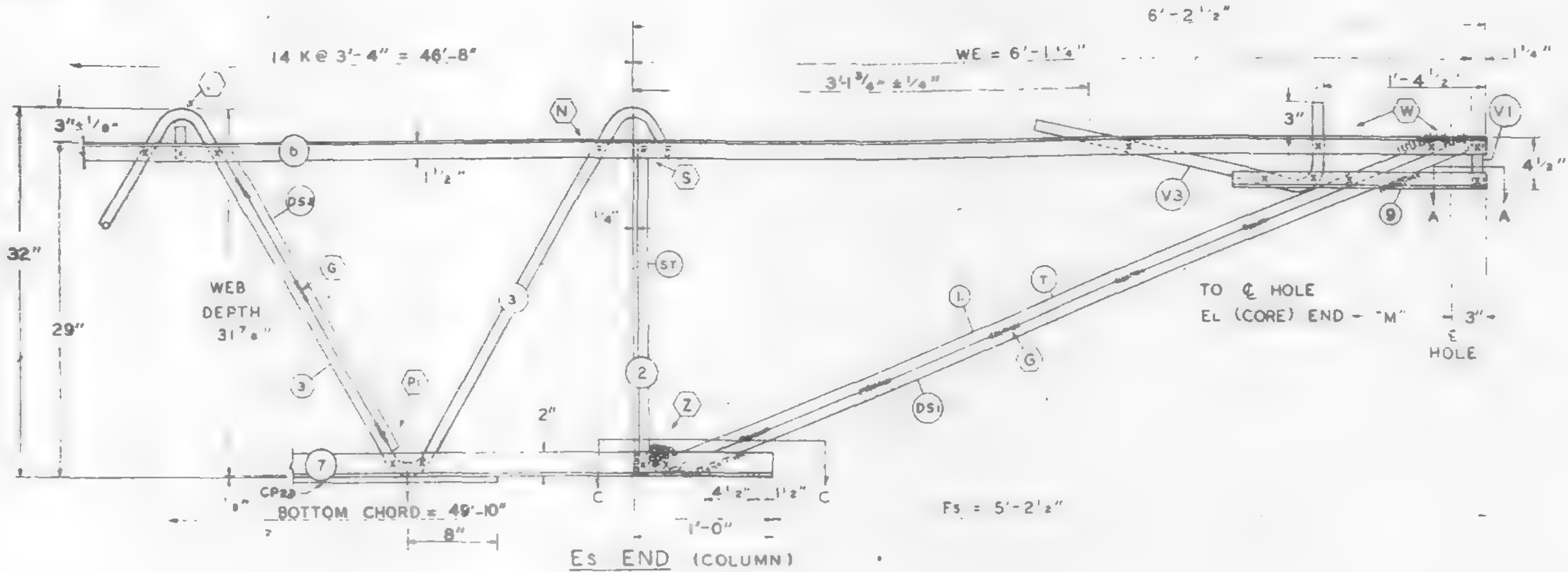
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-25	PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE: JAN. 20, 1969	
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR	DATE.	CHECKED BY: T.M.CHIBA DATE. JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO. ST228N

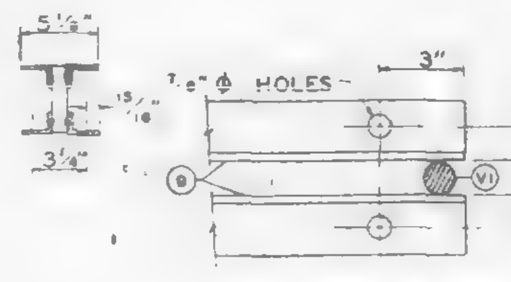


EL END (CORE) — ES END (COLUMN)

TRUSS ELEVATION

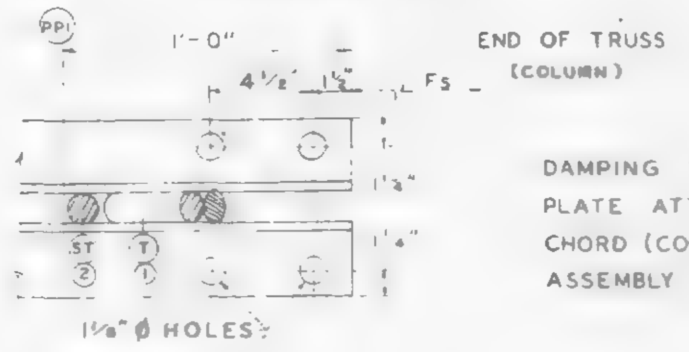


ES END (COLUMN)



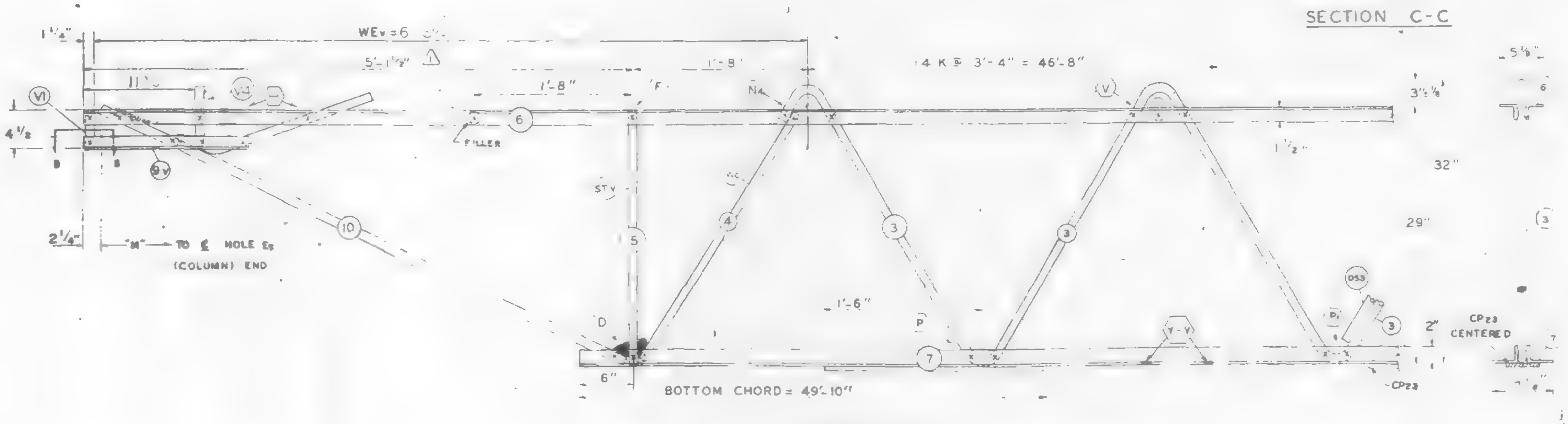
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST295
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1]

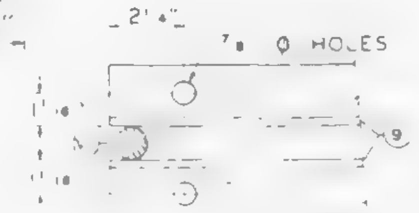


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

NO.	DATE	REVISION	BY
1	6-12-69	AS NOTED	G.D.C.

REF DRWG.

7-AB1-26	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF K	FILLER NO.	DIA.	"M" C-C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T29C598	6	A242	2"x1½"x.37	[illegible]	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	[illegible]	4	1.14	3"	CP23	A36	4½"x.39	45'-6"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V3 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH.
	C32T29C598	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A232	1.14	2'-4⅞"	A242	1.14	4⅝"	A242	1.14	2'-9½"	DS1	A242	.92	6'-3¾"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

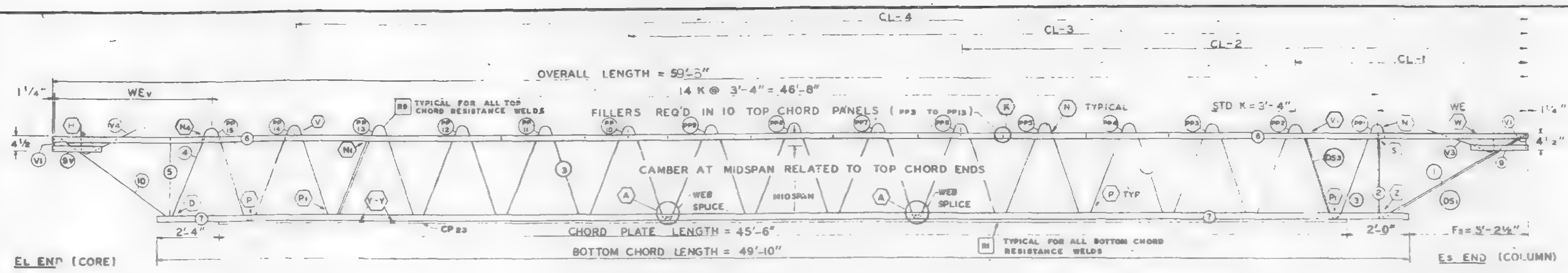
EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	PCS	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(2) DOUBLE STRUT (REQ'D) MK	TYPE STEEL	DIA	LENGTH
	C32T29C598	9	A242	2"x1½"x.37	1'-6"	6'-8¼"	10	A242	1.14	5'-5½"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅝"	—	—	—	A242	1.14	7'-2½"	4	A242	1	1.14	2'-9½"		—	—	—	—	—	—	—	DS2	A242	.75	2'-8¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T29C 59-5 OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

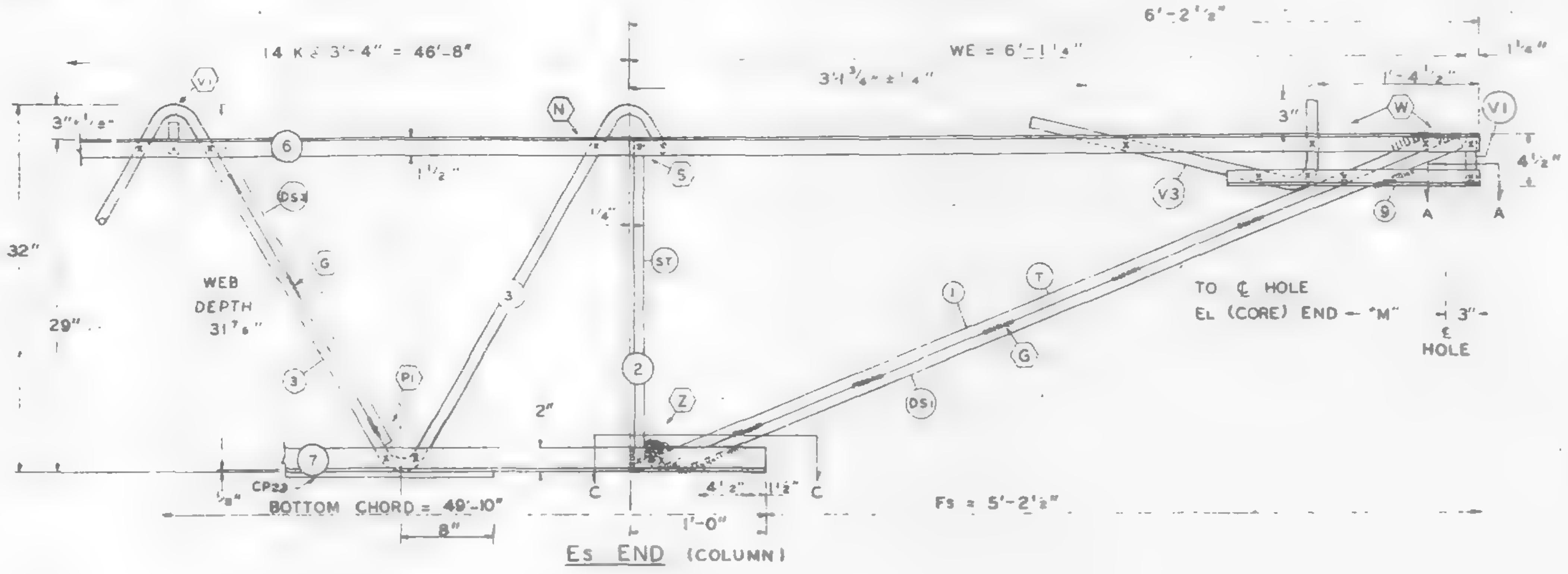
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-26	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A.	DATE 7/28/69	DRAWN BY: DATE: MAY 1969	
APPROVED FOR FABRICATION BY: FOR FABRICATOR	DATE.	CHECKED BY: DATE: MAY 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY: A. C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST229C



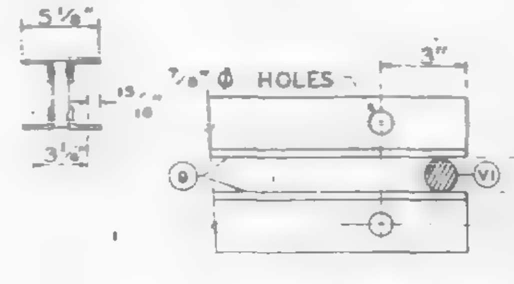
TRUSS ELEVATION

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

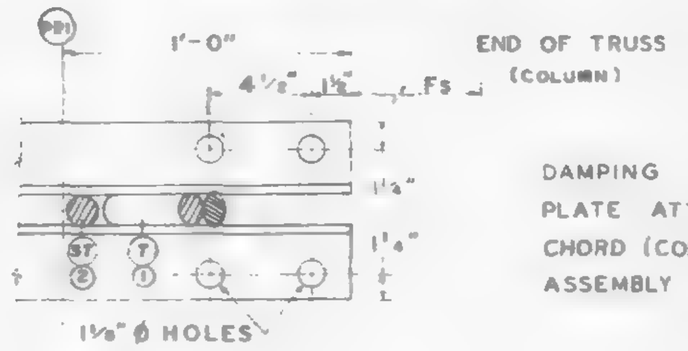
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST295
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie., [R1]



Es END (COLUMN)

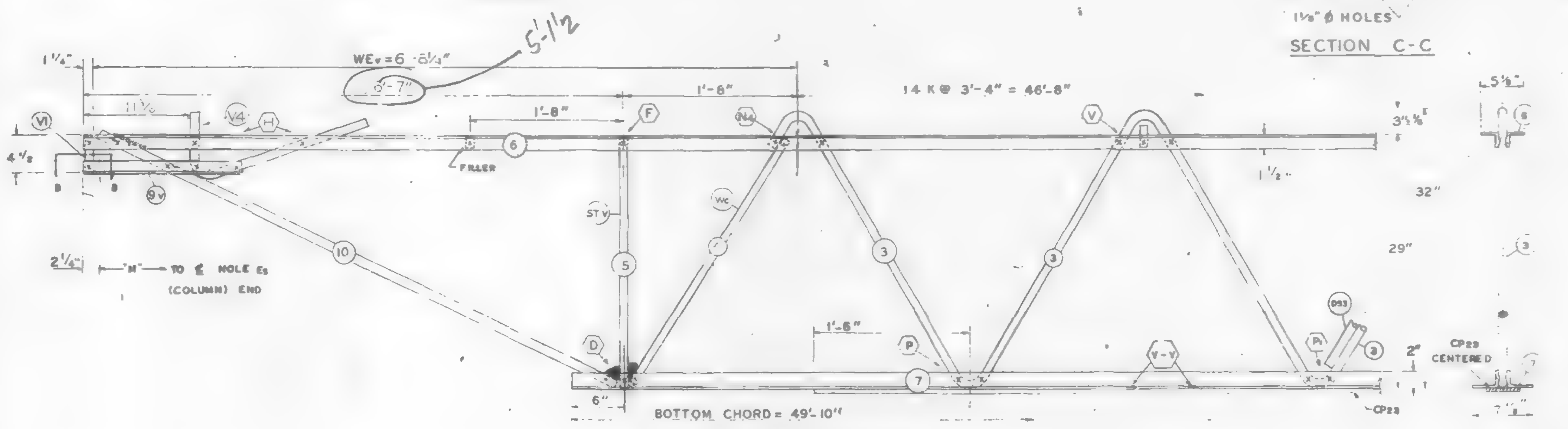


SECTION A-A

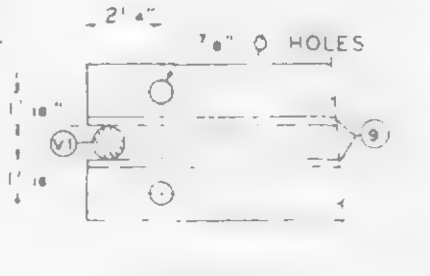


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS.



EL END (CORE)



SECTION B-B

NO	DATE	REVISION	BY

SKILLING - HELLE - CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
6/4/69 SK

REF DRWG.

7-AB1-26	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE EL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		[ ]	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T29C 598	6	A242	2"x1½"x.37	[illegible]	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	59'-2¾"	4	1.14	3"	CP23	A36	4½"x.39	45'-6"

COLUMN END

Fs END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32T29C 598	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE STRUT (REQ'D)			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T29C 598	9	A242	2"x1½"x.37	1'-6"	6'-8¼"	10	A242	1.14	5'-5½"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"				A242	1.14	7'-2½"	4	A242	1	1.14	2'-9½"	–	–	–	–	–	–	–	–	DS3	A242	.75	2'-6¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

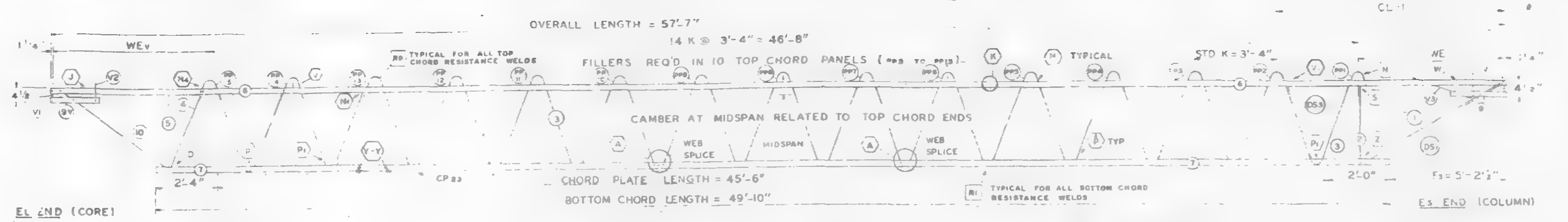
FLOOR TRUSS C32T29C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-26	PLATE
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE: MAY 1, 1969	
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR	DATE	CHECKED BY: [illegible] DATE: MAY 1 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A. C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST229C

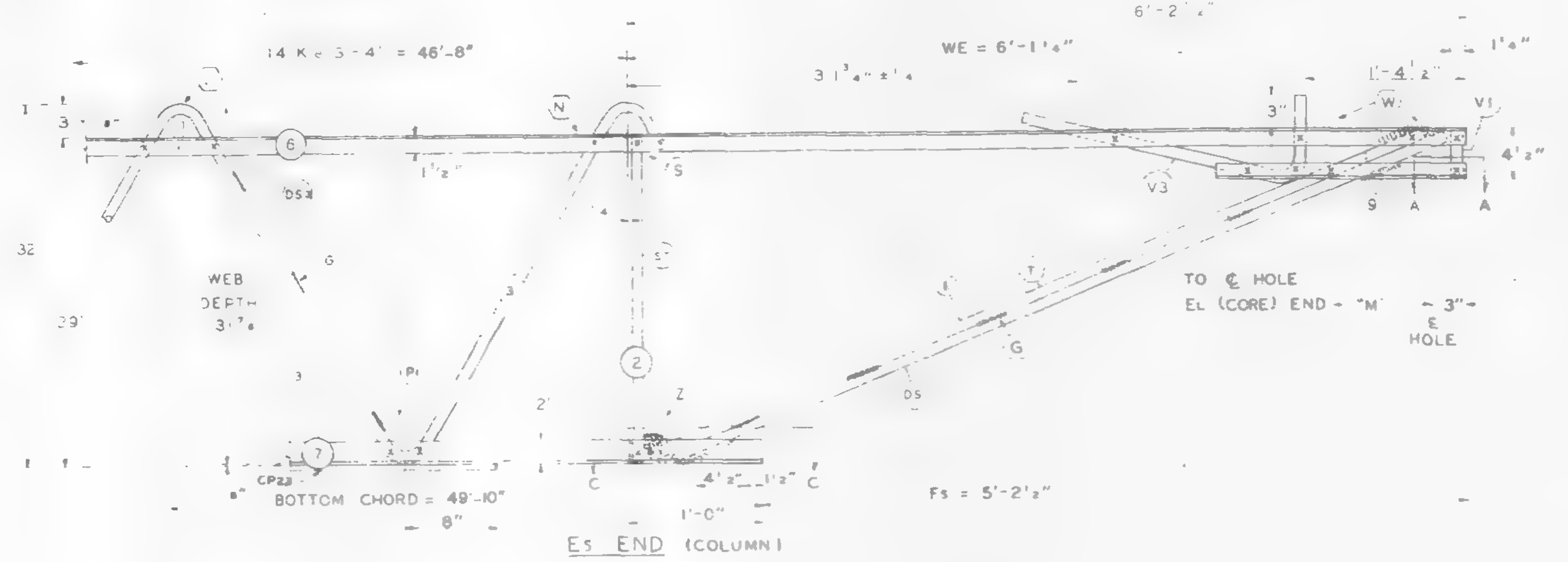
FABRICATION REQUIRMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/5"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

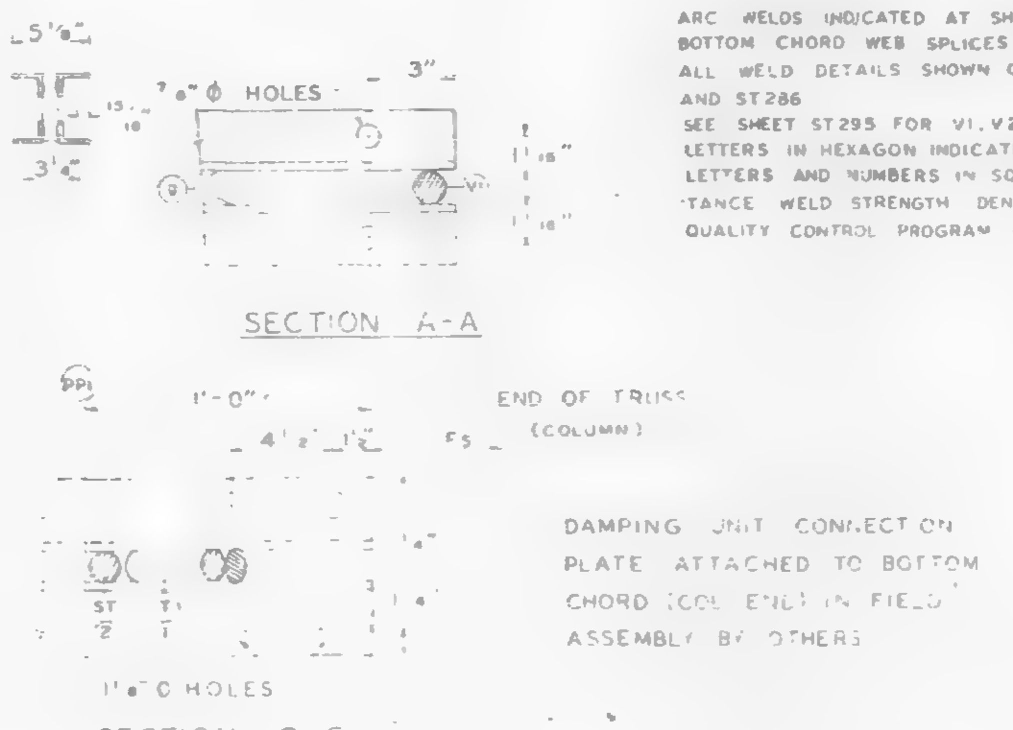


TRUSS ELEVATION

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM

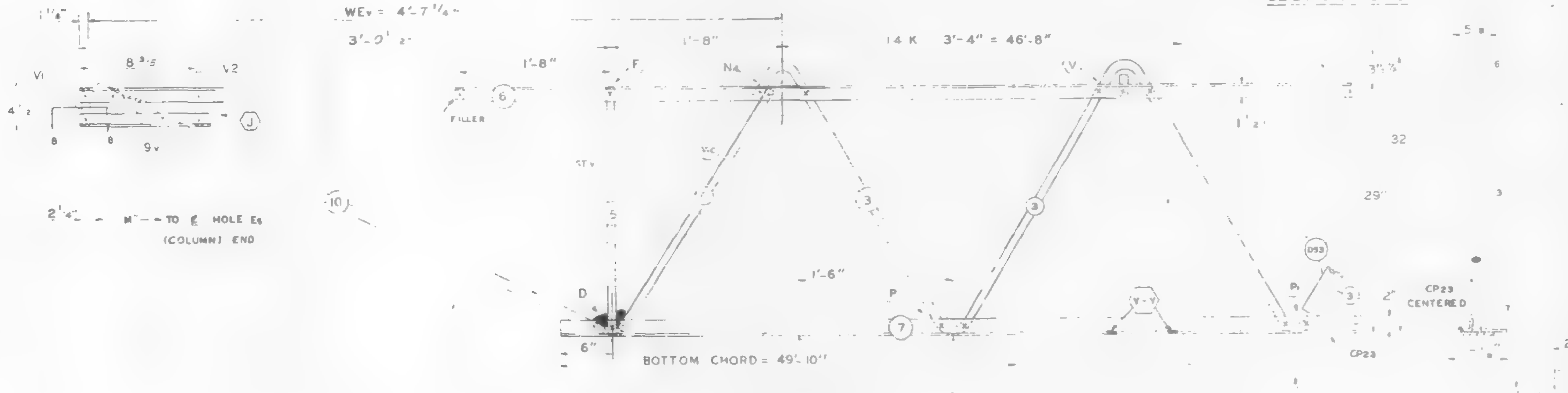


Es END (COLUMN)



SECTION A-A

SECTION C-C



EL END (CORE)

SECTION B-B

REF DWG	
7-AB1-26	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" C-C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T29P 57	6	A242	2"x1 1/2"x.37	57'-7"	7	A36	3"x2"x37	49'-10"	3	A242	1.14	88'-1 1/4	14 @ 3'-4" = 46'-8"	11	1.14	57 3/4	4	1.4	3"	CP23	A36	4 1/2 x 39	45'-6"

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH
C32T29P 577	9	A242	2"x1 1/2"x 37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	2 1/2

CORE END

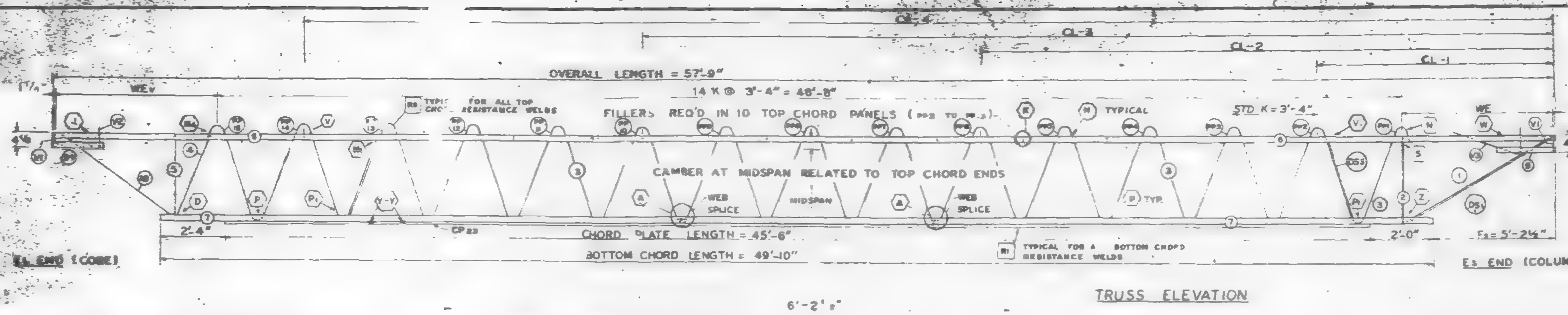
EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	PCS	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(2) REQ'D DOUBLE ST MK	TYPE STEEL	A	LENGTH
C32T29P 577	9	A242	2"x1 1/2"x.37	10 1/4"	4'-7 1/4"	10	A242	1.14	3-8 1/2"	5	A242	1.14	2'-4 7/8	A242	1.14	4 3/8	A242	1.14	7 3/8	–	–	–	4	A242	1	1.14	2'-9	–	–	–	–	–	–	–	–	DS3	A242	75	2'-6 3/4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

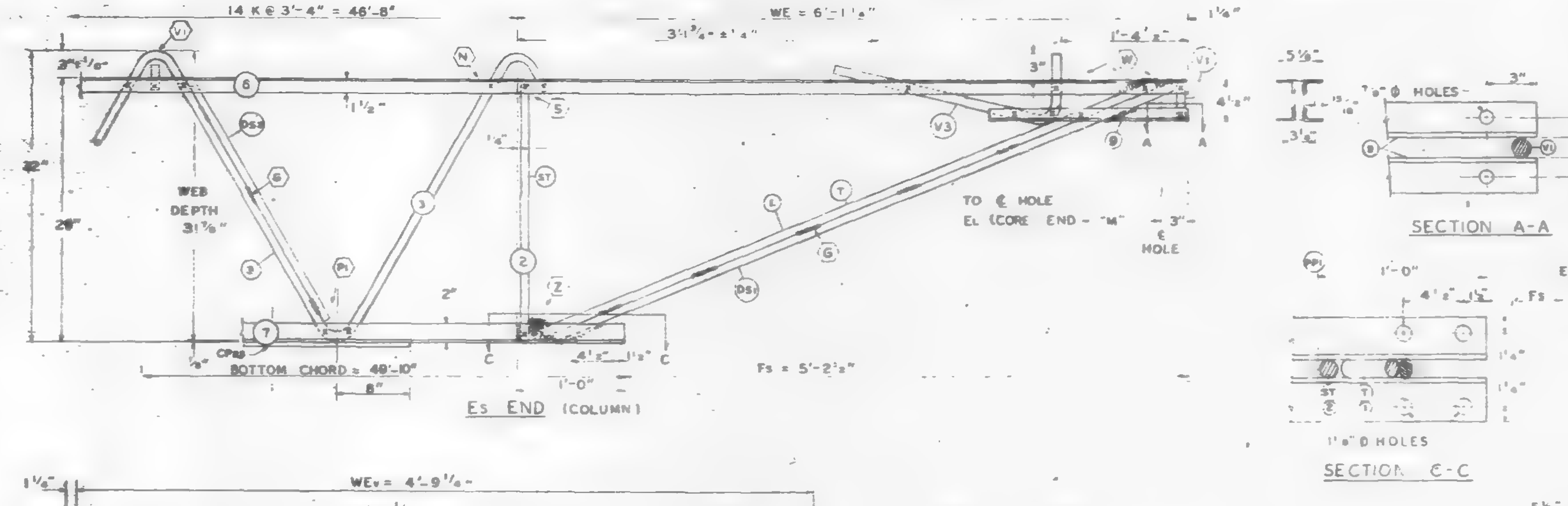
FLOOR TRUSS C32T29P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-26	PLATE 1
APPROVED FOR FABRICATION BY [signature] FOR PONYA	DATE 6/4/69	DRAWN BY. [initials] DATE: APRIL 25, 1969	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR	DATE	CHECKED BY: T.M.CHURA DATE: APRIL 25, 1969	IN CHARGE OF: PROD. DEV.
DETAILED BY A C WEBER		FABRICATION CONT. NO. W T C. 221	SHEET NO. ST229P

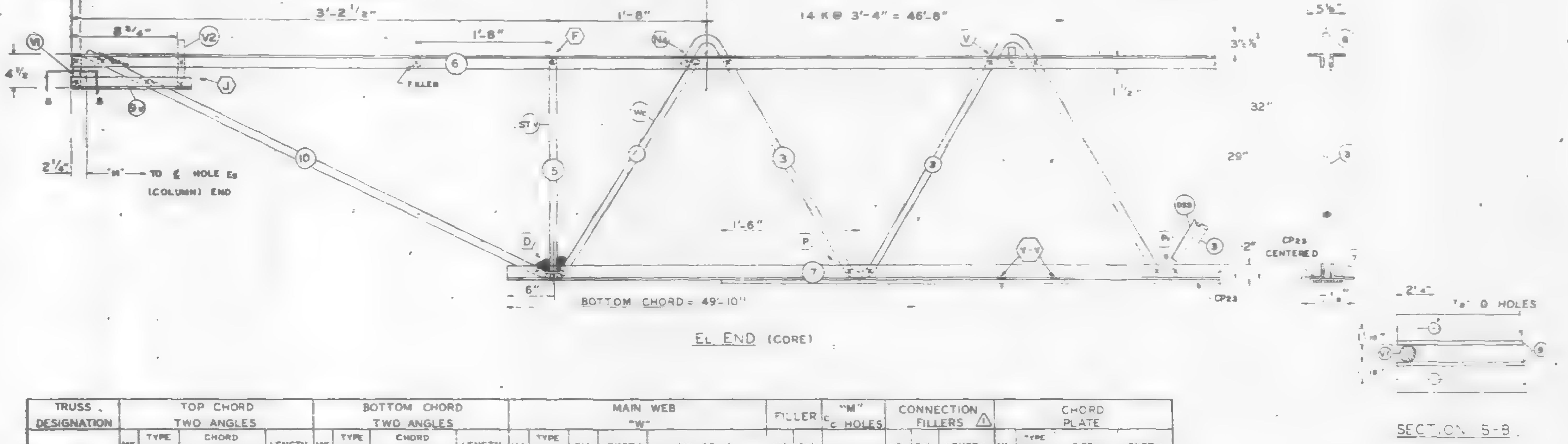


DESIGN DEPTH	29"	
PANEL "K"		
OVERALL LENGTH	57'-9"	
WEB DEPTH		



ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST285
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL-END) IN FIELD ASSEMBLY BY OTHERS



1	2-18-69	BEARING ANGLE SIZE & CON FILLERS	
NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-26	1-6-68
7-AB4-30	8-1-68
7-AB3-41	1-6-68
7-AB1-33	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C C HOLES	CONNECTION FILLERS ⚠1			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T29N579	6	A242	2"x1 1/2"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	.14	57'-3 3/4"	4	1.14	3"	CP23	A36	4 1/2"x.39	45'-6"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES ⚠1				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
	C32T29N579	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/2"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

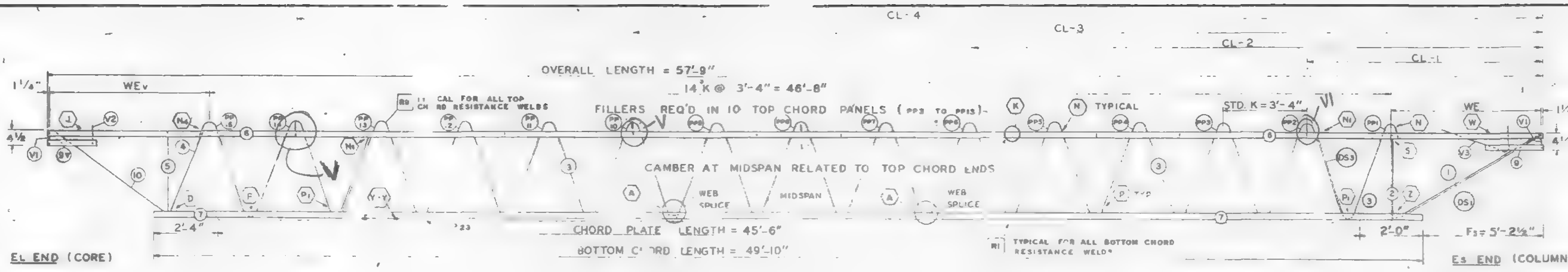
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES ⚠1				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE (REQ'D) STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T29N579	9	A242	2"x1 1/2"x.37	10 1/2"	4'-9 1/4"	10	A242	1.14	3'-10"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"	–	–	–	4	A242	1	1.14	2'-9 1/2"	–	–	–	–	–	–	–	–	DS3	A242	.75	2'-6 3/4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T29N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

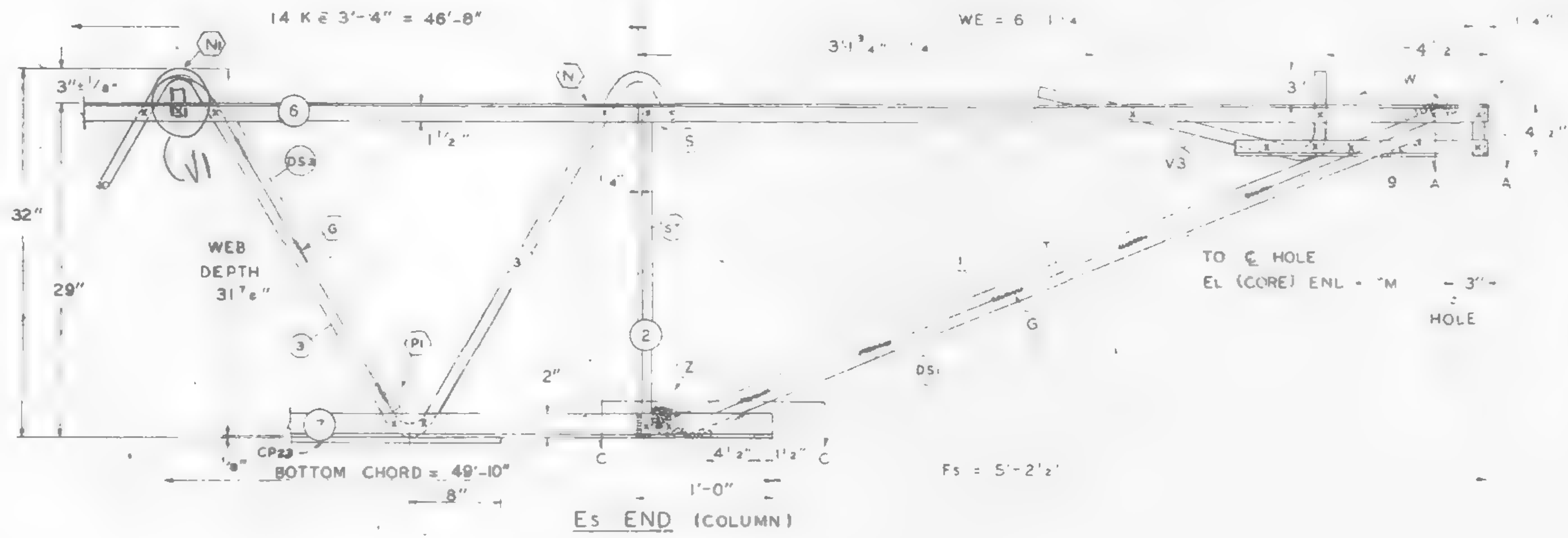
FABRICATION BY. LACLEDE STEEL COMPANY
FABRICATED AT. MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-26 PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE 2/24/69
DATE: JAN 20 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR — LACLEDE STEEL CO. DATE.
CHECKED BY: DATE: JAN 21, 1969
IN CHARGE OF
DETAILED BY. A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO.



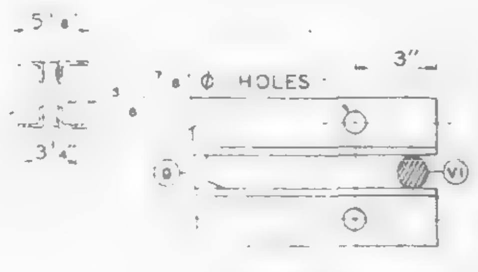
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	1/4"
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

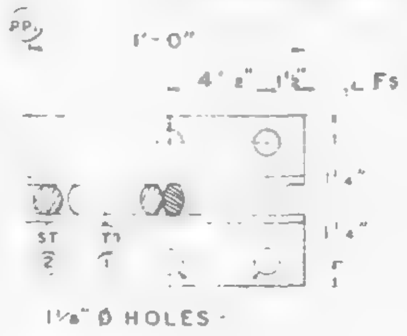
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST287
SEE SHEET ST295 FOR VI, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1]



Es END (COLUMN)

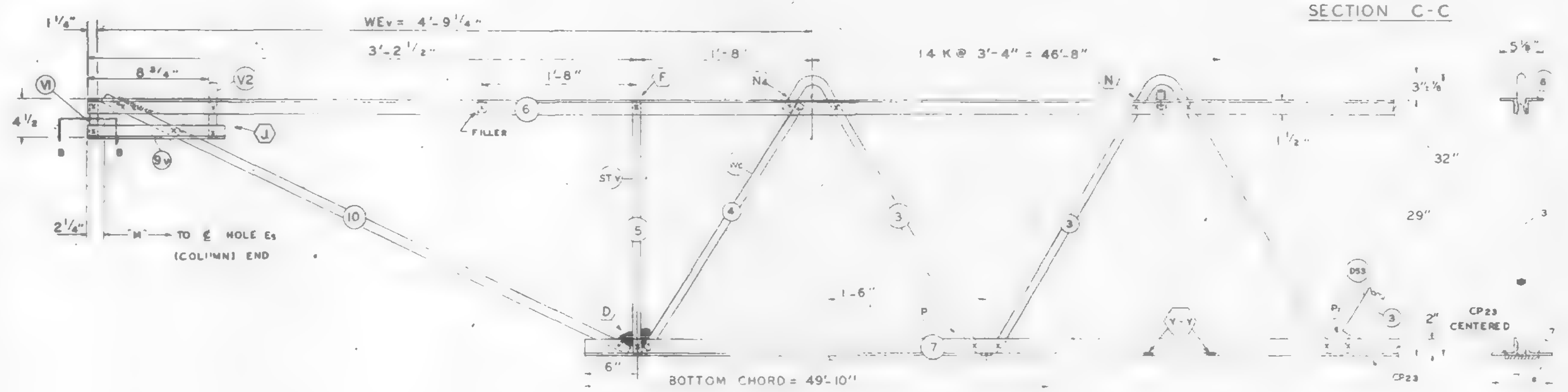


SECTION A-A



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)

SECTION B-B

REF DRWG	
7-AB1-26	1-6-69
7-AB4-30	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" ℄ HOLES	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T29-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"	⊖ 4	⊖ 1.14	⊖ 3	CP23	A36	4½"x.39	45'-6"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK VI			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
	C32T29N-579	9	A242	2"x1½"x.25 (.37)	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

2/19/69 SK

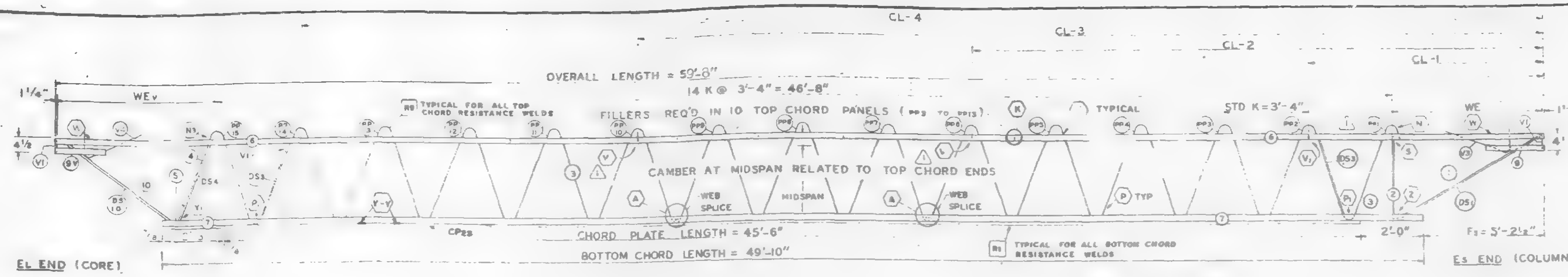
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK VI			END STIFFENER V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(2) (REQ'D) DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T29N579	9	A242	2"x1½"x.25 (.37)	10½"	4'-9¼"	10	A242	1.14	3'-10"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-9½"	—	—	—	—	—	—	—	—	DS3	A242	.75	2'-6¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

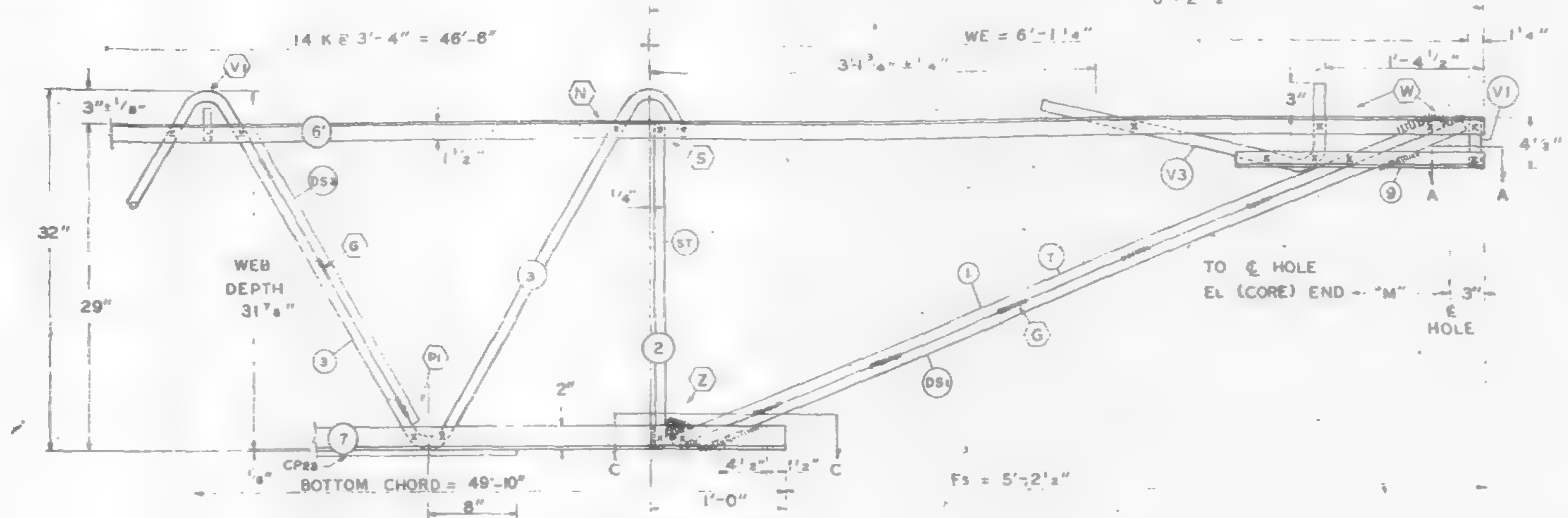
FLOOR TRUSS C32T29N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY			
FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-26	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE: JAN 20 1969	
APPROVED FOR FABRICATION BY A C WEBER FOR FABRICATOR	DATE.	CHECKED BY: T.N.CHURA DATE JAN 21, 1969	IN CHARGE OF PROD DEV
DETAILED BY A C WEBER		FABRICATION CONT NO. W.T.C. 221	SHEET NO ST229N



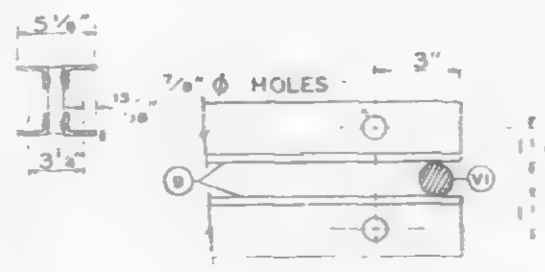
EL END (CORE) — TRUSS ELEVATION — Es END (COLUMN)

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	28"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

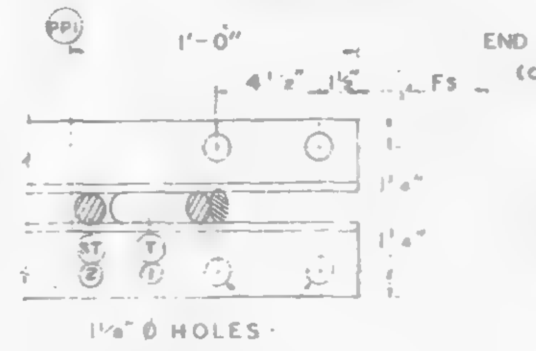


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1]

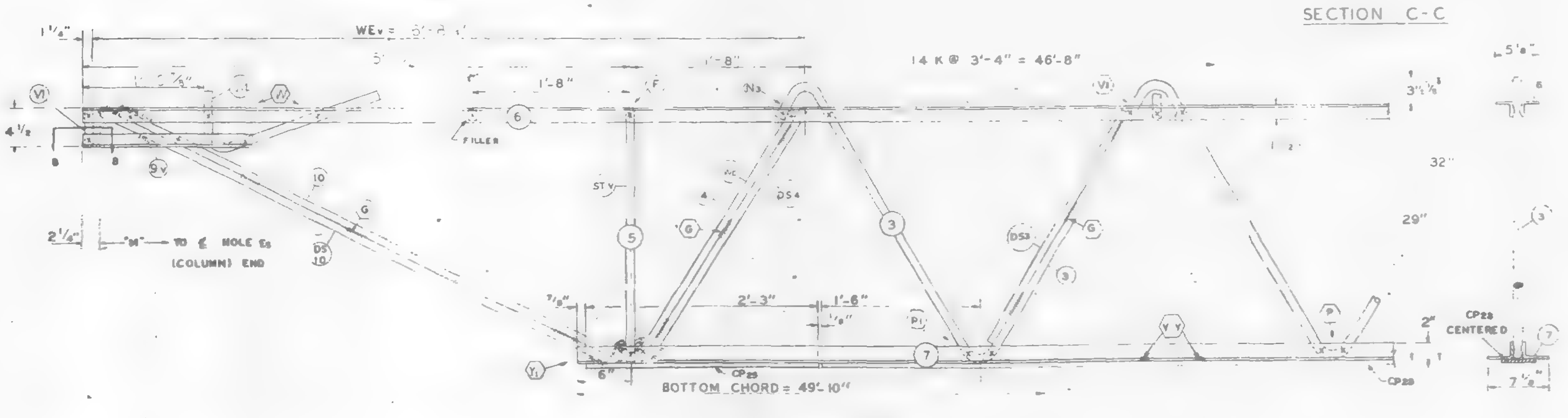


SECTION A-A

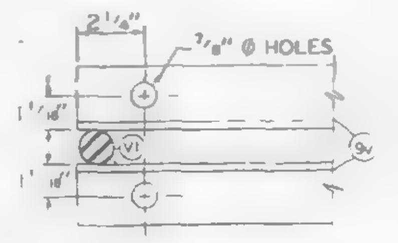


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.



EL END (CORE)



SECTION B-B

NO	DATE	REVISION	BY
1	6-16-69	AS NOTED	G.D.C

REF DRWG.

7-AB1-27	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	CONNECTION FILLERS			CHORD PLATE				REINFORCING ANGLE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO OF K	NO	DIA		NO	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30C598	6	A242	2"x [illegible]"x.37	[illegible]	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	3'-2¾"	4	1.14	0'-3"	CP23	A36	4½"x.39	45'-6"	–	—	—	—	CP25	A36	4½"x.39"	2'-3"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK V3			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LGTH
C32T30C598	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB — LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6"	5'-2½"

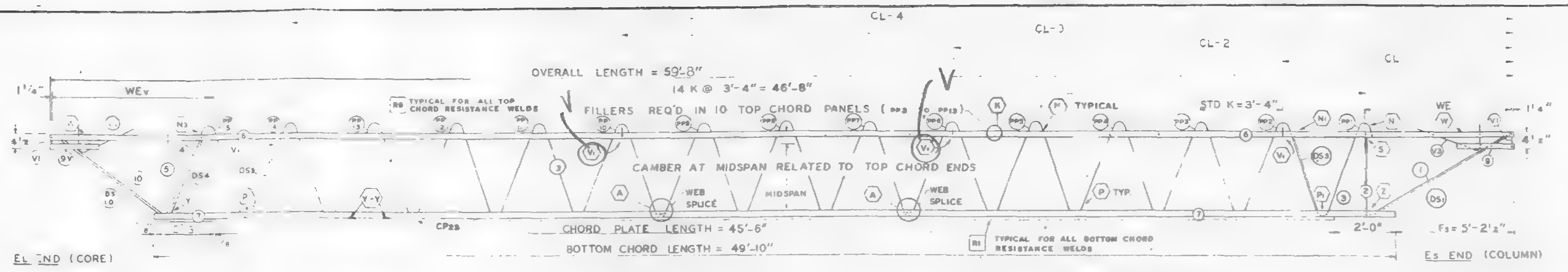
CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK V2			END STIFFENER MK. V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(2) (REQ'D) DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T30C598	9	A242	2"x1½"x.37	1'-6"	6'-8⅛"	10	A242	1.14	5'-4¼"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"				A242	1.14	2'-2½"	4	A242	1	1.14	2'	DS4	A242	.75	[illegible]	[illegible]	A242	.32	[illegible]	[illegible]	A242	.75	2'-6⅝"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T30C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A&B

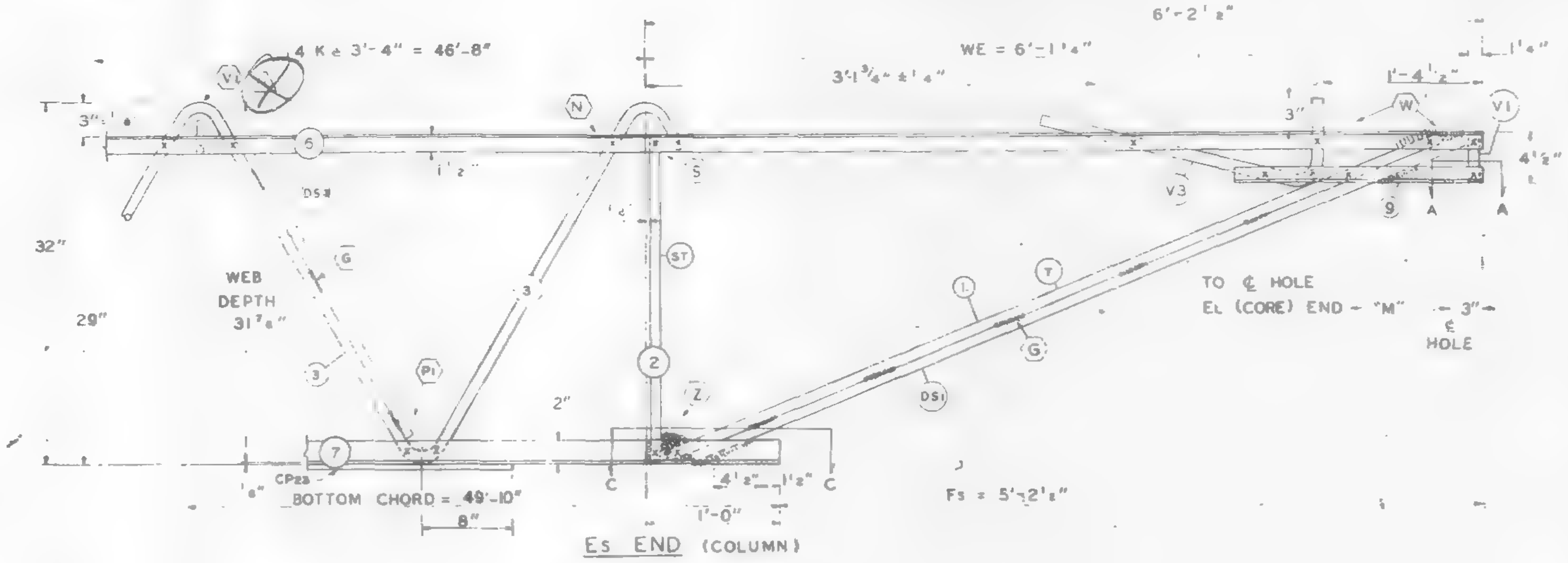
FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB-27 PLATE
APPROVED FOR FABRICATION [signature] FOR P.O.N.Y.A. DATE 7/22/69
DRAWN BY: [illegible] DATE: APRIL 29, 1969
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE.
LACLEDE STEEL CO.
CHECKED BY: [illegible] DATE: APRIL 29, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST230C



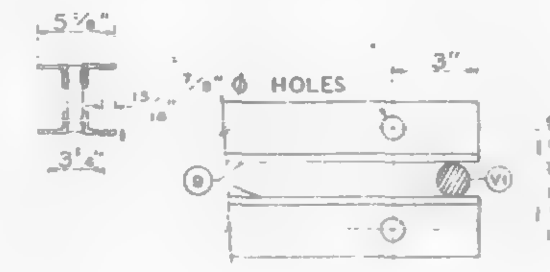
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

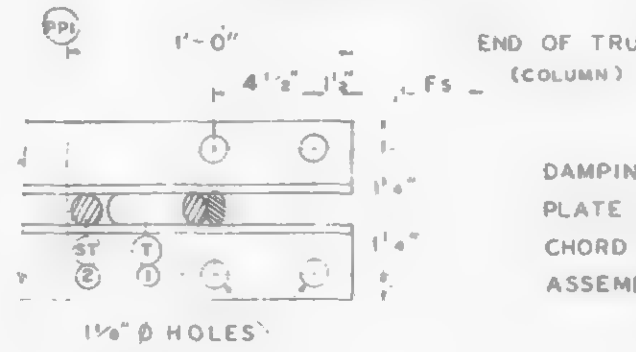
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST 286.
SEE SHEET ST295 FOR V1, V2, V3. DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R1



Es END (COLUMN)

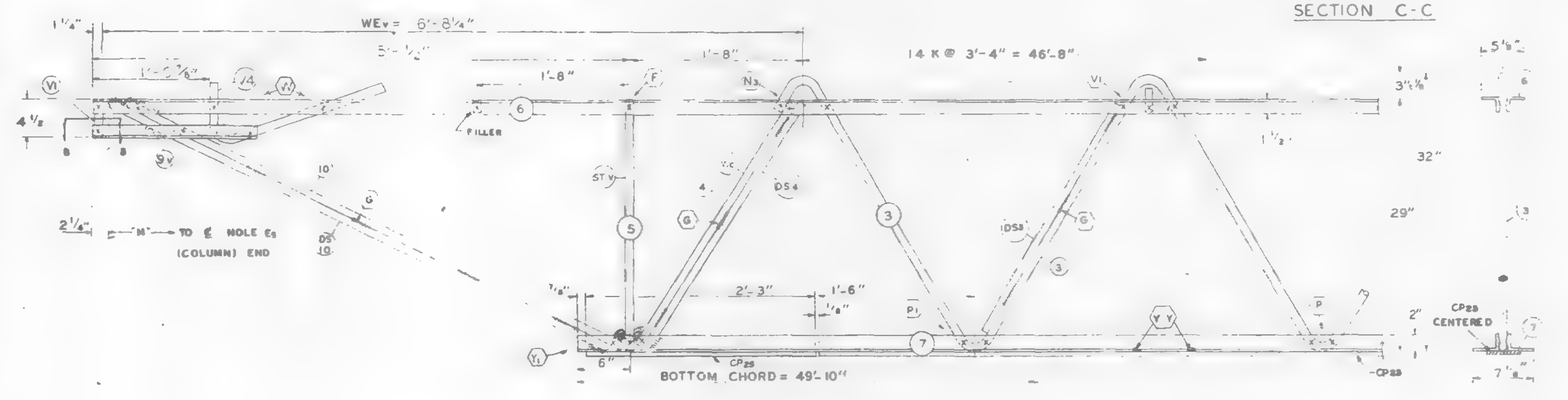


SECTION A-A

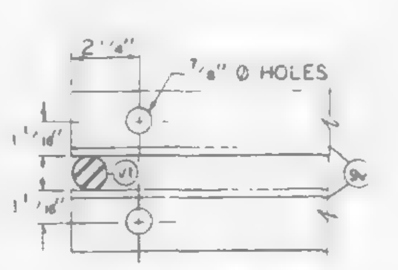


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.



EL END (CORE)



SECTION B-B

NO	DATE	REVISION	BY

SKILLING · HELLE · CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers
APPROVED
X APPROVED AS NOTED
RESUBMIT
REJECTED
6/4/69 by SK

REF DRWG

7-AB1-27	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD WO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				REINFORCING ANGLE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF X	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30[illegible]	6	A242	2"x1½"x.37	59'-6"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼	14 @ 3'-4" = 46'-8"	11	1.14	59'-2¾	4	1.14	0'-3"	CP 23	A36	4½"x.39	45'-6"	—	—	—	—	CP 25	A36	4½"x.39"	2'-3"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LGTH.
[illegible]30C598	9	A242	2"x1½"x.37	2'-8"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	2½"

CORE END

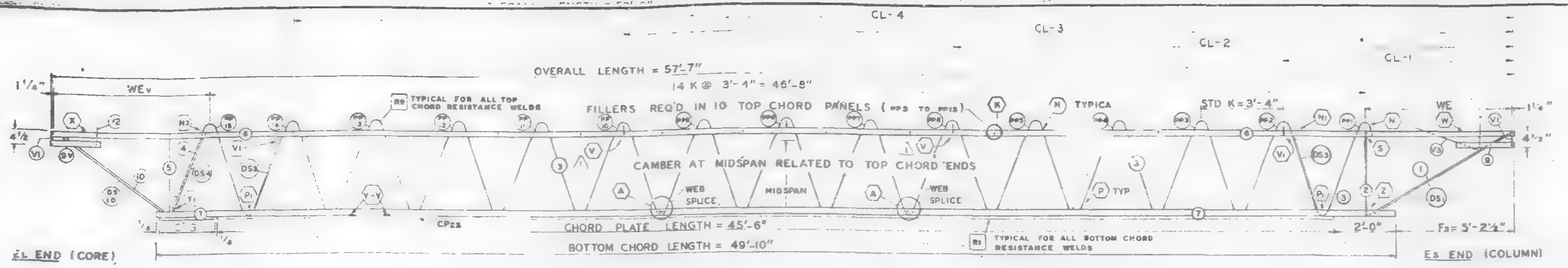
EL END TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE STRUT (REQ'D)			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL		LENGTH
C32T30C598	9	A242	2"x1½"x.37	1'-6"	6'-8¼	10	A242	1.14	5'-4¼	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"				A242	1.14	2'-2½"	4	A242	1	1.14	2'-9"	4	A242	.75	2'-9½"	DS10	A242	.92	5'-4¼"	DS3	A242	.75	2'-6¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

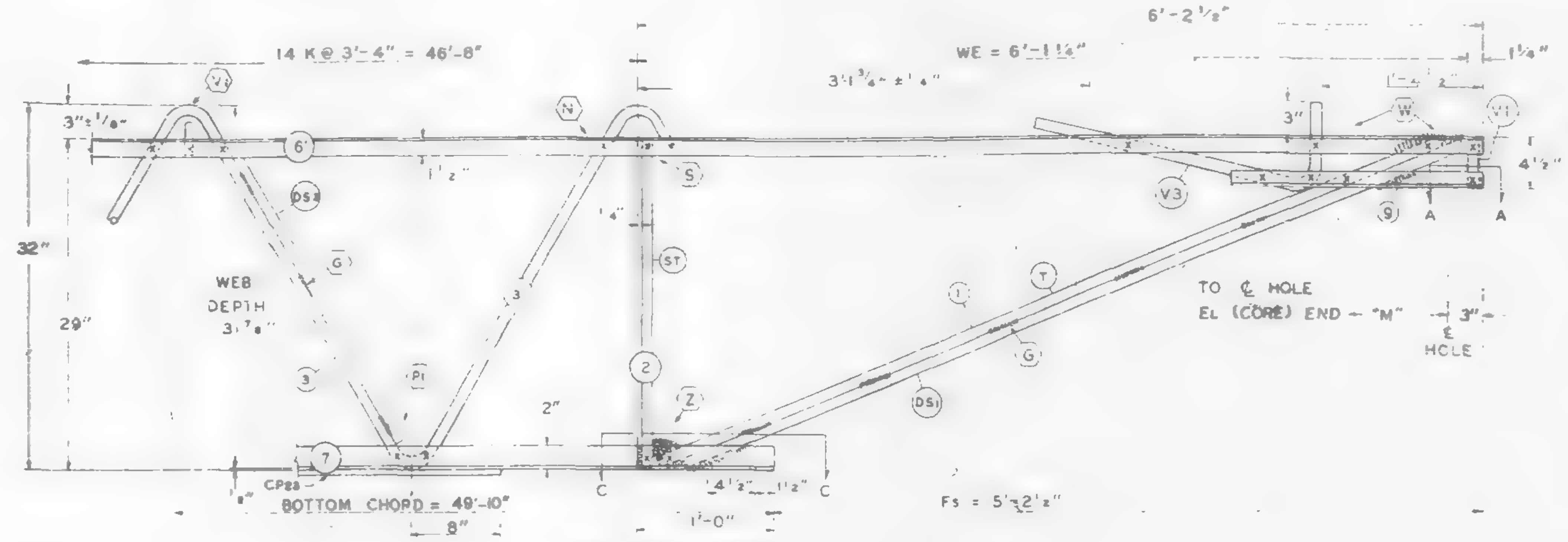
FLOOR TRUSS C32T30C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

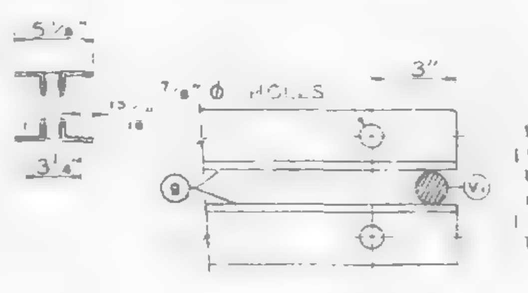
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-27 — PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A. — DATE	DRAWN BY: — DATE: APRIL 29, 1969
APPROVED FOR FABRICATION BY: ______ FOR FABRICATOR — DATE	CHECKED BY: — DATE: APRIL 29, 1969 — IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221 — SHEET NO. ST230C



TRUSS ELEVATION

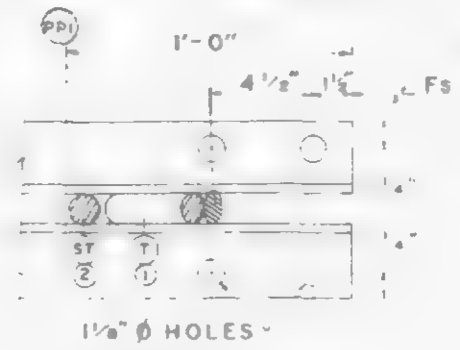


Es END (COLUMN)



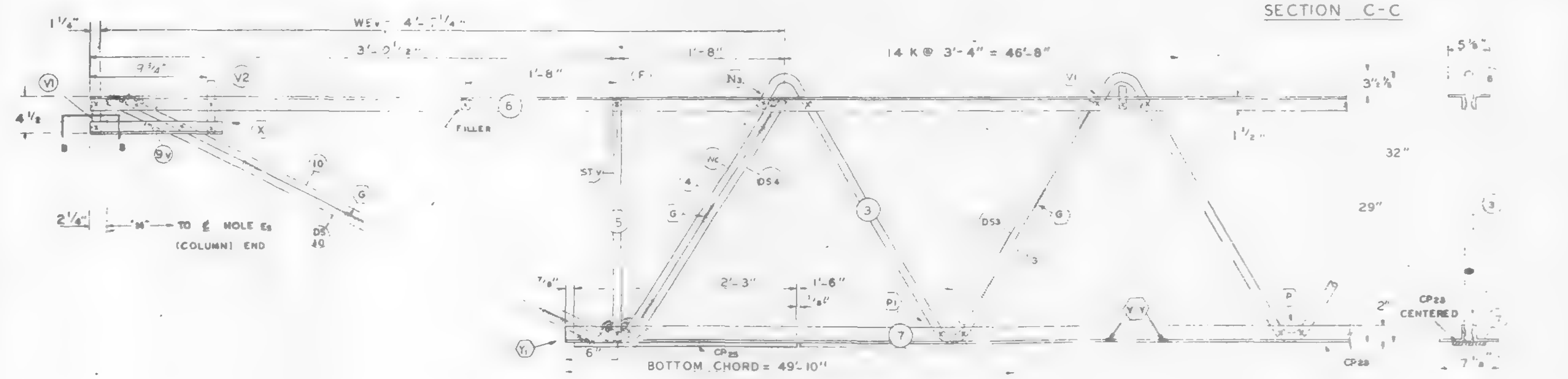
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., [R1]

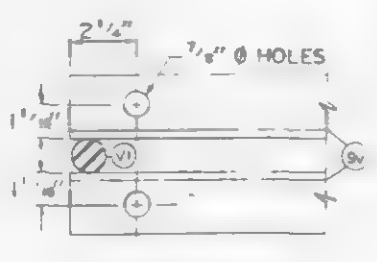


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57' 7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

NO	DATE	REVISION	BY
1	6-12-69	AS NOTED	G.D.C

REF DRWG.

7-AB1-27	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	CONNECTION FILLERS			CHORD PLATE				REINFORCING ANGLE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA	⚠1	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30P-577	6	A242	2" [illegible]" x .37	57'-7"	7	A36	3" x 2" x .37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	7'-1¾"	4	1.14	0'-3"	CP23	A36	4½" x .39	45'-6"	—	—	—	—	CP25	A36	4½" x .39"	[illegible]' 3"

COL IN END	Es END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32T30P-577	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	.92	6'-3½"

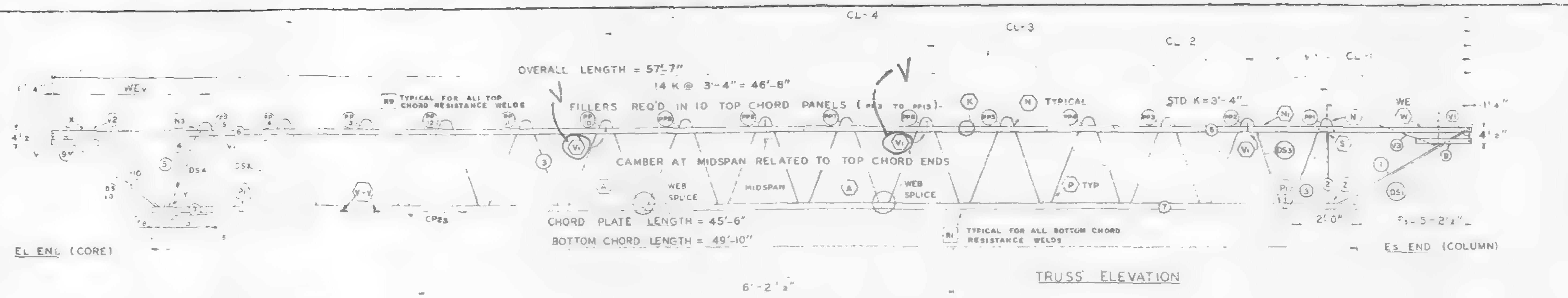
CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END	EL END TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE STRUT (REQD)			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T30P-577	9	A242	2"x1½"x.37	11¾"	4'-7¼"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2	DS4	A242	.75	2'-9½"	DS10	A242	.92	3'-7"	DS3	A242	.75	[illegible]-6¾"

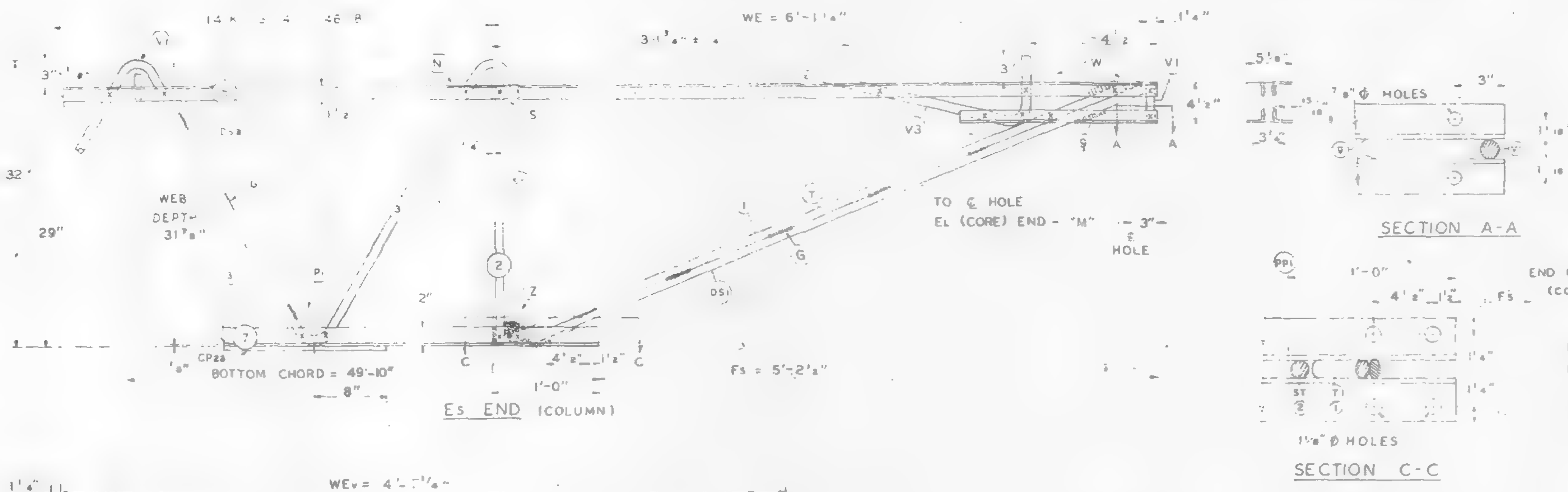
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T30P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-27 PLATE
APPROVED FOR FABRICATION BY [illegible] FOR P.O.N.Y.A. DATE 7/28/69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DRAWN BY: [illegible] DATE: APRIL 25, 1969
CHECKED BY: [illegible] DATE: APRIL 25, 1969
IN CHARGE OF [illegible]
DETAILED BY: A. C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST230P

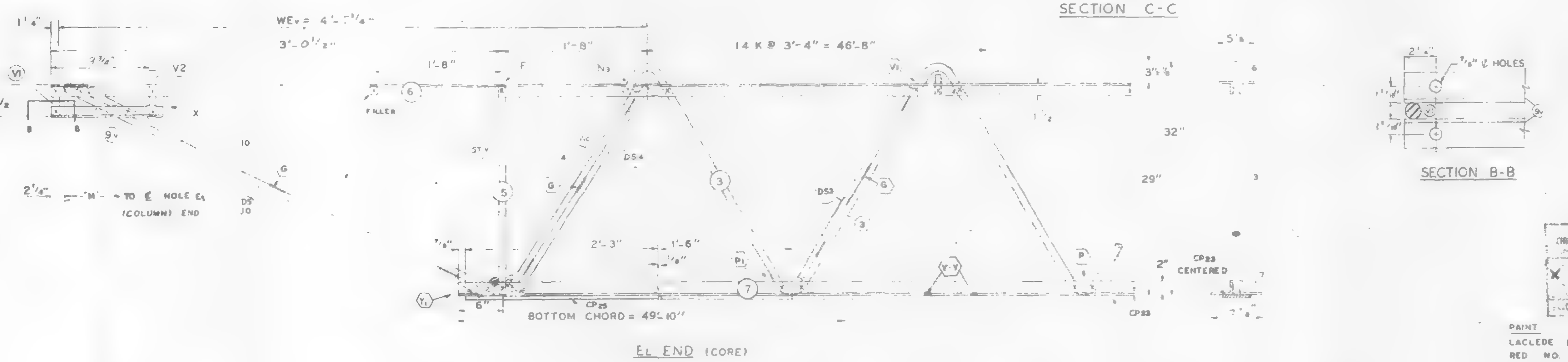


FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57' 7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"



ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY OTHERS



NO	DATE	REVISION	BY

REF DRWS.

7-ABI-27	1-6-69
7-AB4-50	6-1-68
7-AB3-41	1-6-69
7-ABI-53	7-22-68

6/4/69 SK

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				REINFORCING ANGLE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30P-577	6	A242	2"×1½"×.37	57'-7"	7	A36	3"×2"×.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	1	1.14	57'-¾"	4	1.14	0'-3"	CP23	A36	4½"×.39	45'-6"	-		—	—	CP25	A36	4½"×.39"	2'-3"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
	C32T30P-577	9	A242	2"×1½"×.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

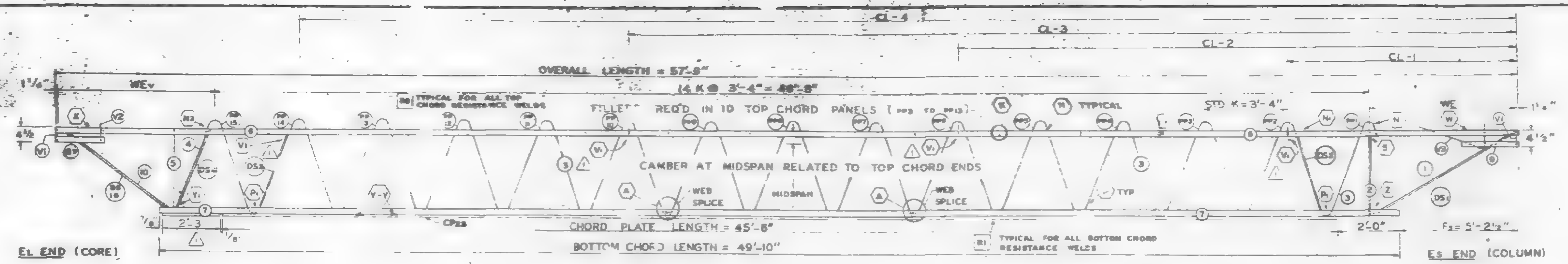
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE STRUT (REQ'D)		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	LENGTH
	C32T30P-577	9	A242	2"×1½"×.37	11¾"	4'-7¼"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-9½"		A242	.75	2'-9½"	DS10	A242	.92	3'-7"	DS9	A242 .75	2'-6¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

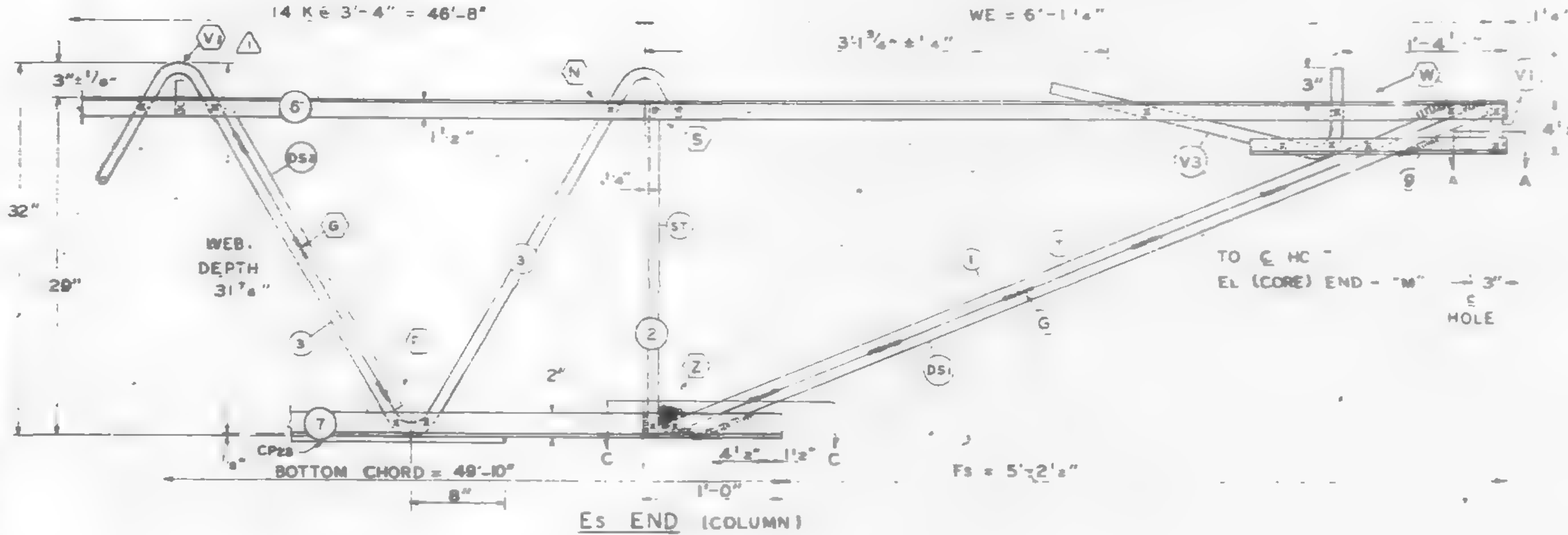
FLOOR TRUSS C32T30P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO 7-ABI-27	PLATE
APPROVED FOR FABRICATION BY. FOR P.O.N.Y.A.	DATE	DRAWN BY: DATE: APRIL 25, 1969	
APPROVED FOR FABRICATION BY. LACLEDE STEEL CO.	DATE.	CHECKED BY: T.H.CHURA DATE: APRIL 25, 1969	IN CHARGE OF PROD. DEV
DETAILED BY. A C WEBER		FABRICATION CONT. NO. W.T.C 221	SHEET NO. ST230P



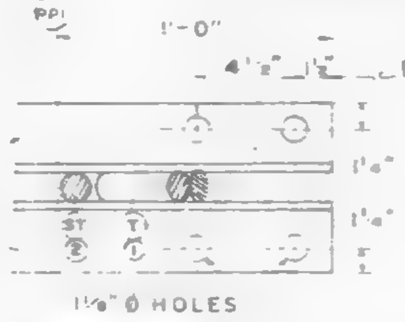
TRUSS ELEVATION



Es END (COLUMN)

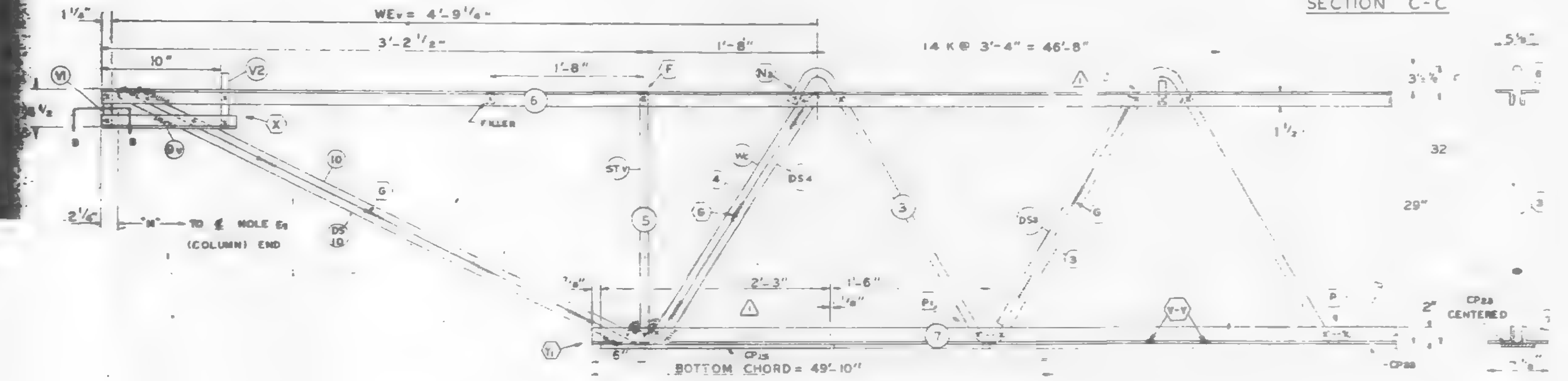
SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM

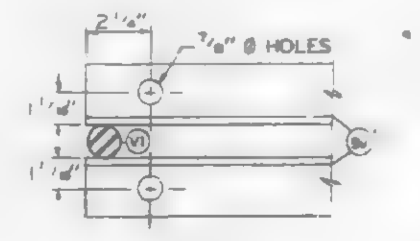


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

FABRICATION REQUIREMENTS	[illegible]	TOLERANCE
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	2"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-9"	[illegible]
WEB DEPTH	31 7/8"	1/4"

NO	DATE	REVISION	BY
1	2-18-69	AS NOTED	L.B.M.

REF DRWG.

7-AB1-27	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	CONNECTION FILLERS ⚠1			CHORD PLATE				REINFORCING ANGLE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	ANGLE SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30N-579	6	A242	2"x1 1/2"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3 3/4"	4	1.14	0'-3"	CP25	A36	4 1/2"x.39	45'-6"	—	—	—	—	CP25	A36	4 1/2"x.39"	2'-3"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES ⚠1				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH
	C32T30N-579	9	A242	2"x1 1/2"x.37	2'-8"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 3/8"	A242	1.14	4 3/8"	A242	[illegible]	[illegible]	DS1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

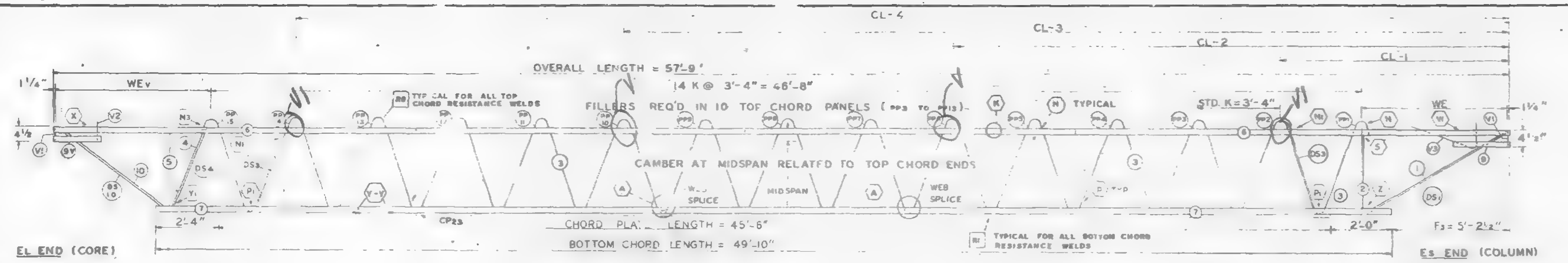
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES ⚠1				WEv	DIAGONAL "Tv" STRUT ⚠1				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT ⚠1				(2) (REQ'D) DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T30N-579	9	A242	2"x1 1/2"x.37	1'-0"	4'-9 1/4"	10	A242	1.14	3'-8 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"	—	—	—	4	A242	1	1.14	2'-9 1/2"	DS4	A242	.75	2'-9 1/2"	DS10	A242	.92	3'-8 1/4"	DS3	A242	.75	2'-6 5/8"

STEEL TRUSS DETAILS
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T30N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A&B

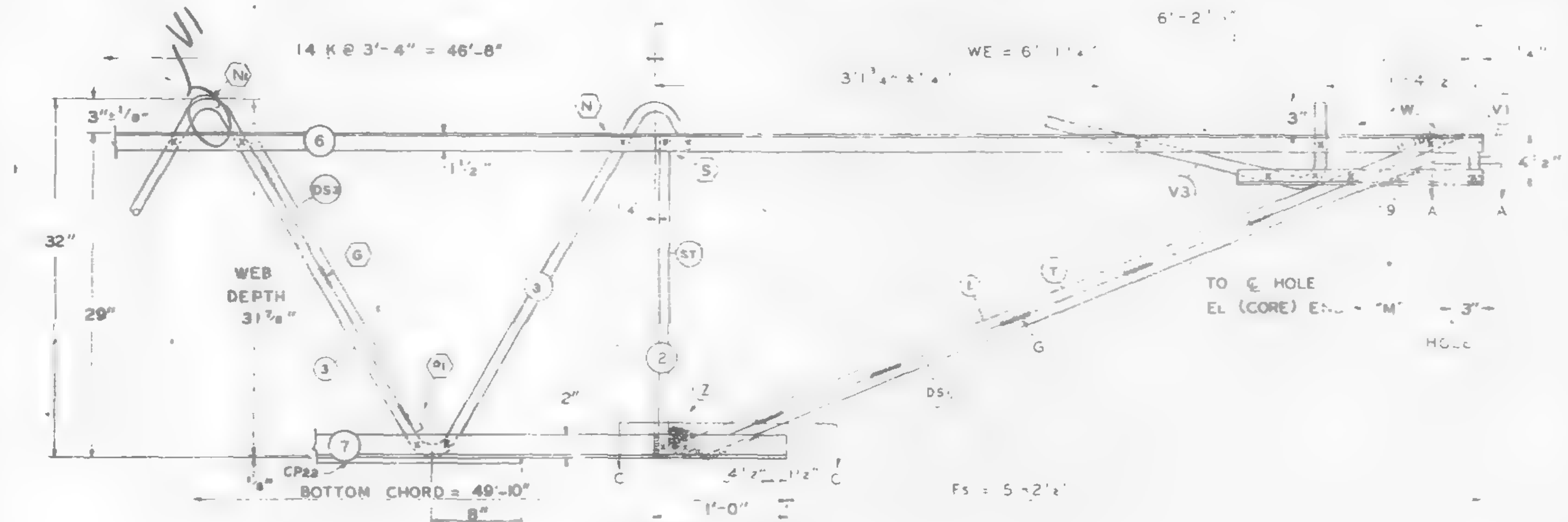
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-27 PLATE
APPROVED FOR FABRICATION BY James White FOR P.O.N.Y.A. DATE 2/[illegible]/69
DRAWN BY: [illegible] DATE: [illegible]
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE
CHECKED BY: [illegible] DATE: JAN. 21, 1969
IN CHARGE OF [illegible]
DETAILED BY: [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST[illegible]



EL END (CORE) — Es END (COLUMN)

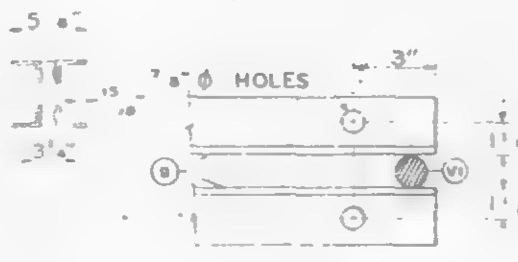
TRUSS ELEVATION

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 7/8"	± 3/8"
DESIGN DEPTH	29"	± ¼"
PANEL "K"	3'-4"	¼"
OVERALL LENGTH	57'-9"	- 3/8"
WEB DEPTH	31 7/8"	± 1/4"

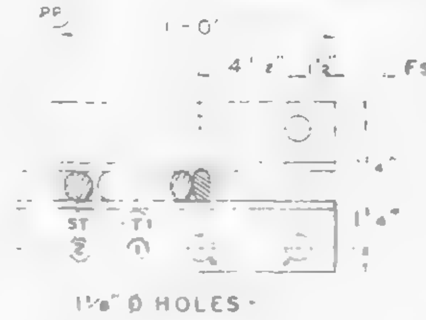


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST287.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS. ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ... R1

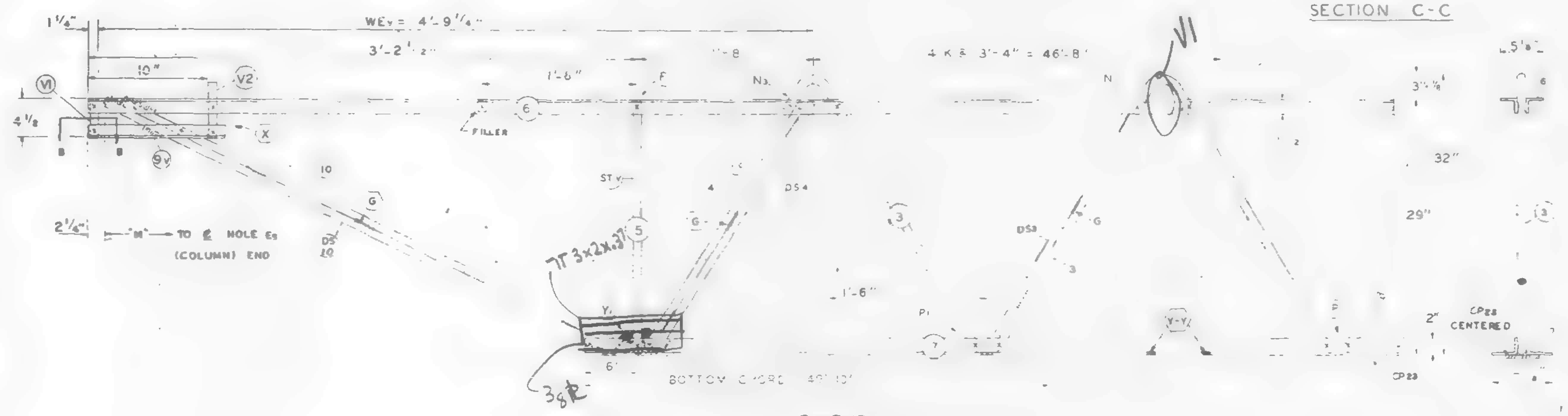


SECTION A-A

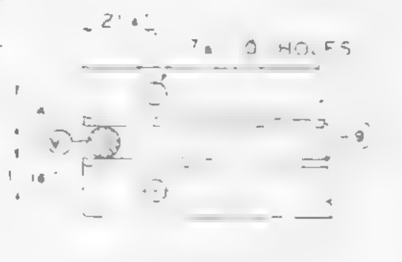


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

REF DRWG.	
7-AB1-27	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C-C HOLES	CONNECTION FILLERS			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T30N-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾	4	1.14	4	CP23	A36	4½"x.39	45'-6"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL		LENGTH	MK	TYPE STEEL	DIA	LGTH
	C32T30N-579	9	A242	2"x1½"x.25 (.37)	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242		[illegible]½"	DS1	A242	.92	6'-3⅛"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				ND STIFFENER MK. V1			ND STIFFENER MK. V2			ND STIFFENER MK. V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(2) DOUBLE STRUT (REQ'D)			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T30N-579	9	A242	2"x1½"x.25 (.37)	1'-0"	4'-9¼"	10	A242	1.14	3'-7⅜"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-9½"	DS4	A242	.75	2'-9½"	DS10	A242	.92	3'-7⅜"	DS3	A242	.75	2'-6¾"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

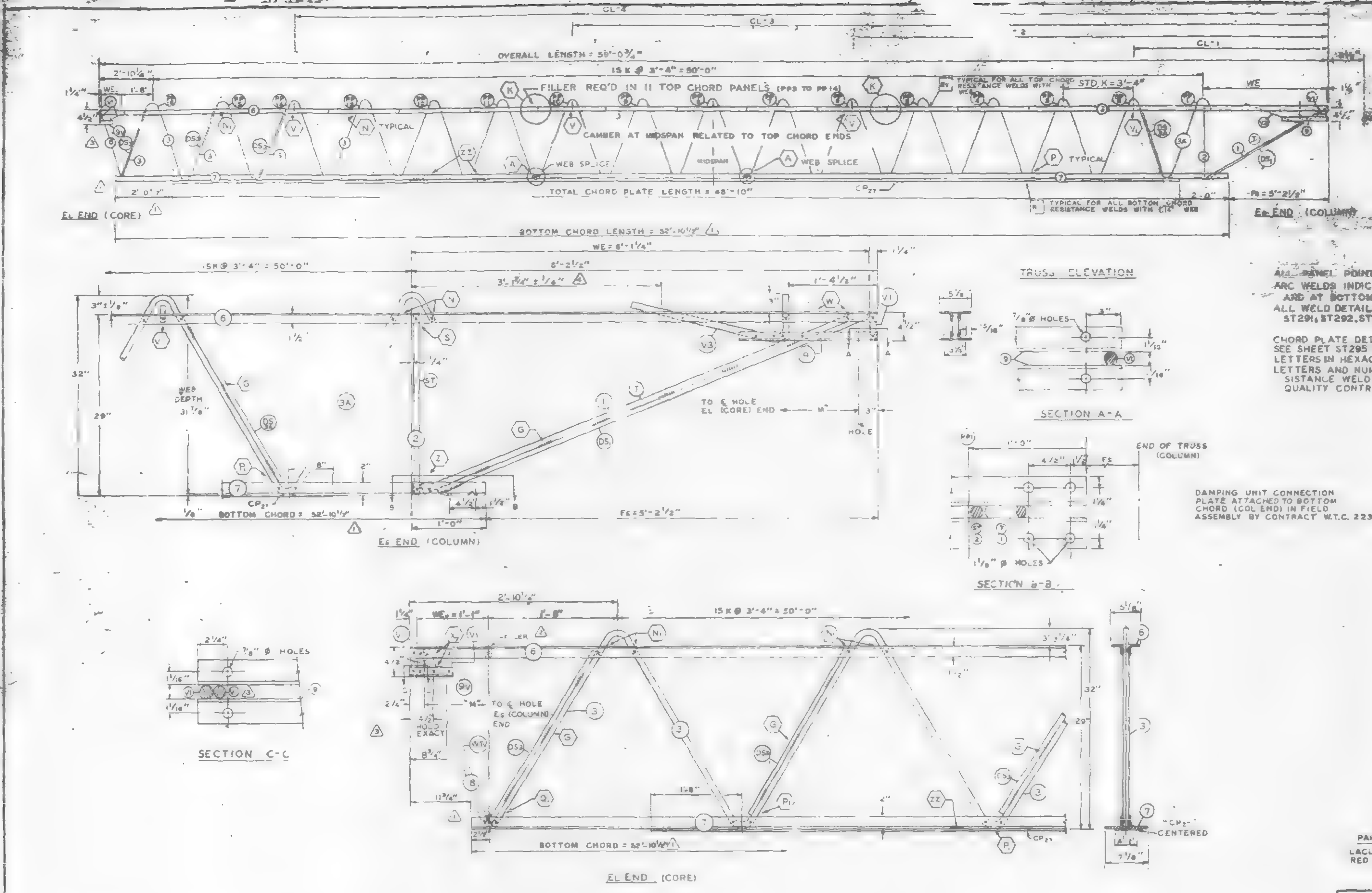
2/10/69 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T30N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-27	PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A.	DATE	DRAWN BY L.A. DATE JAN. 20 1969	
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR	DATE	CHECKED BY T.M. CHIRA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST230N



ALL PANEL POINTS RESISTANCE ...
ARC WELDS INDICATED AT ...
AND AT BOTTOM CHORD WEB ...
ALL WELD DETAILS SHOWN ON ...
ST291, ST292, ST293, ST294 & ...

CHORD PLATE DETAILS SHOWN ON ...
SEE SHEET ST295 FOR V1 & V3 DET...
LETTERS IN HEXAGON INDICATE ...
LETTERS AND NUMBERS IN SQUA...
SISTANCE WELD STRENGTH (DE...
QUALITY CONTROL PROGRAM.

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION	BY
4	3-11-69	AS NOTED	G.D.C.
3	3-3-69	AS NOTED	G.D.C.
2	2-16-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-28	1-4-68
7-AB1-52	2-15-68
7-AB4-14	1-3-68
7-AB1-54	11-26-68
7-AB1-53	7-23-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH (1)	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO.	DIA	CONNECTION ... NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	"M" % HOLES
C32T... -59075	6	A242	2"x1½"x.37	59'-0¾"	7	A36	3"x2"x.37"	52'-10½"	3 3A	A242 A242	1.14 1.14	56'-0¾" 40'-...	9K @ 3'-4" = 30'-0" 6K @ 3'-4" = 21'-8"	12	1.14	4	1.14	-3"	CP_{27}	A36	4"x.39	48'-10"	58

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA.	LENGTH	MK V3 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH
C32T31-59075	9	A242	2"x1½"x.37 (4)	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	0'-4⅜"	A242	1.14	2'-9½"	DS_1	A242	.92	6'-3⅞"	DS_{2A}	A242	.75	2'-6¾"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLE MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (3 REQ'D)	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER (3) MK V1 TYPE STEEL	DIA	LENGTH (3 REQ'D)	WEB "WCY" MK	TYPE STEEL	PCS	DIA	LENGTH	WEB "WTV" MK	TYPE STEEL	PCS	DIA	LENGTH
C32T31-59075	9V	A242	2"x1½"x.37"	0'-10"	1'-1"	DS_3	A242	.98	2'-8¾"	—	—	—	—	A242	1.14	4⅞"	—	—	—	—	—	8	A242	1	1.14	2'-8¼"

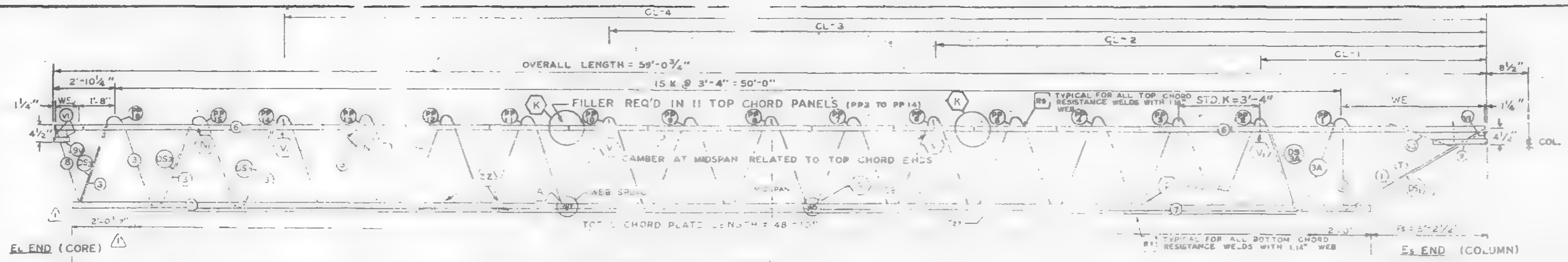
CHECK DIMENSION FOR TRUSS FAB.

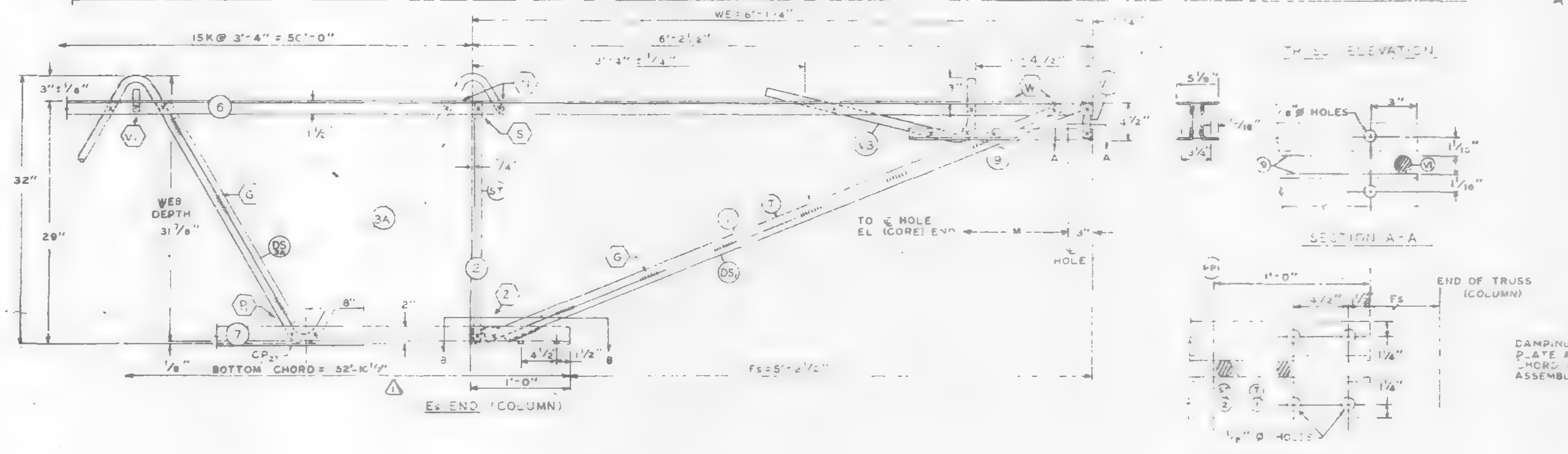
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

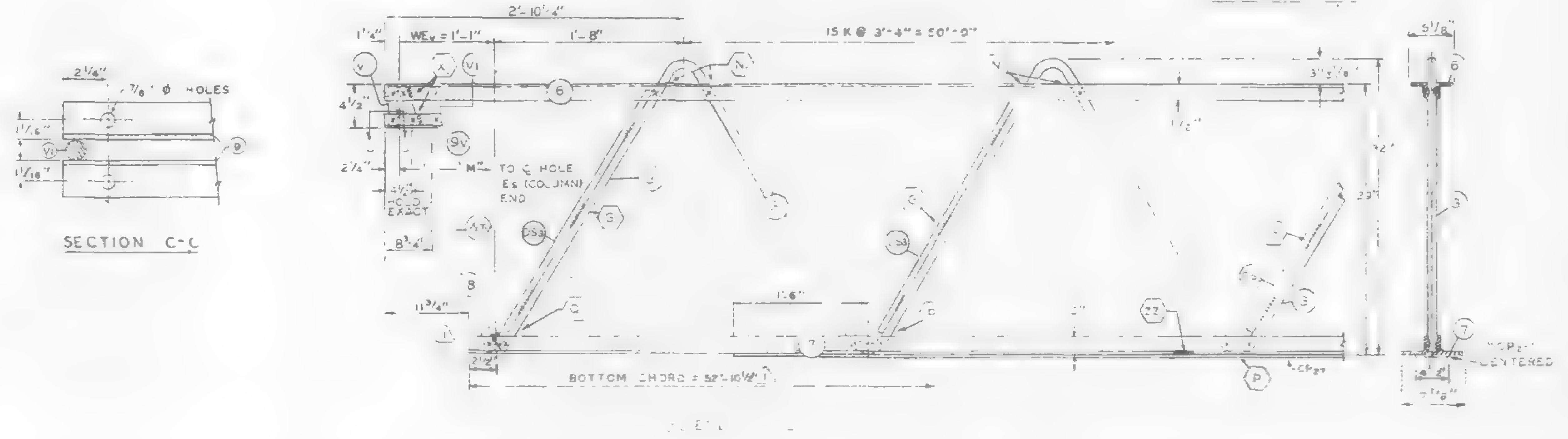
FLOOR TRUSS C32T31- 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY			
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-22	PLATE
APPROVED FOR FABRICATION BY ... FOR P.O.N.Y.A	DATE 3/24/69	DRAWN BY: ... DATE JAN. 21, 1969	
APPROVED FOR FABRICATION BY ... FOR FABRICATOR	DATE	CHECKED BY: T.M. CHURA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO DETAILED BY: A. CARL WEBER		FABRICATION CONT. NO W.T.C. 221	SHEET NO. ST 231





DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C 223.00.



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 8"
DESIGN DEPTH	29'	± 1/4"
PANEL K"	[illegible]	± 1/4"
OVERALL LENGTH	[illegible]	± 3/
WEB DEPTH	[illegible] /9"	± [illegible]

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

CHORD PLATE DETAILS SHOWN ON SHEET ST287.
SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R-1]

NO.	DATE	REVISION	
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-28	[illegible]
7-AB1-52	[illegible]
7-AB4-14	[illegible]
7-AB-5	[illegible]
7-AB1-53	[illegible] 22 '68
7-AB3-70	[illegible] 25 '68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	BEARING ANGLES		WE	DOUBLE STRUT				DOUBLE STRUT			
				MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
[illegible]	[illegible]	37	[illegible]	DS1	A242	.92	6'-3 [illegible]	DS3A	A242	.75	2'-6¾"

TRUSS DESIGNATION	BEARING ANGLE	WEV	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER	WEB "WC"	WEB "WTV"
C32T3 -59'0¾" 9V	A242 2"x1½"x17	0-10	DS3 A242 .98 2 6¾"	—	A242 1.14 [illegible]	—	B A242 1.14 2'-6¾"

2/19/69 SK

CHECK DIMENSION FOR TRUSS FAB.

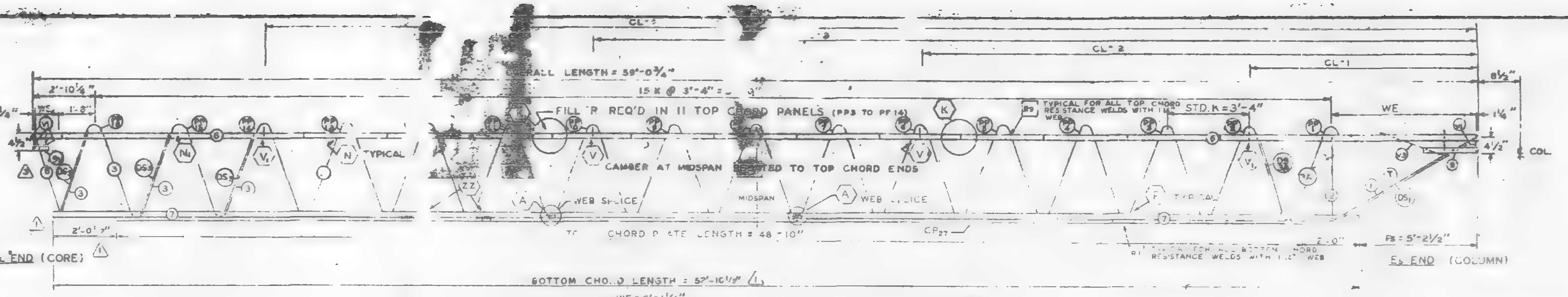
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK AUTHORITY

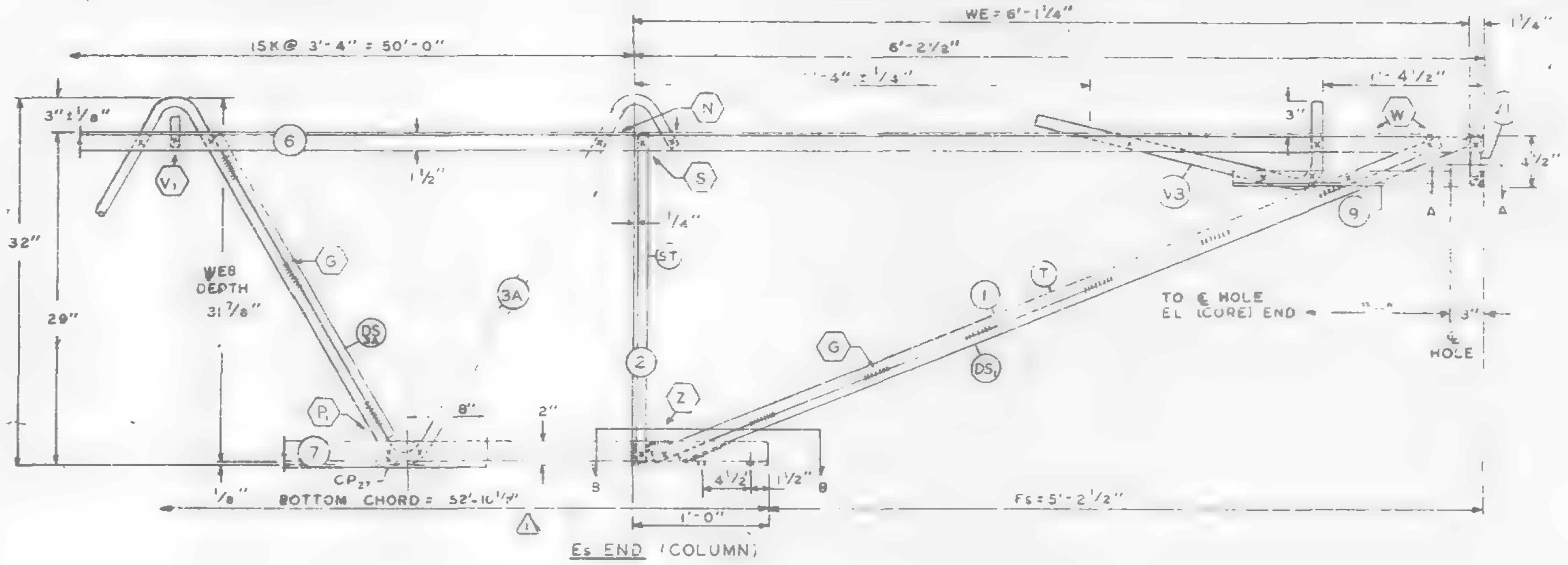
FLOOR TRUSS C32T3 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

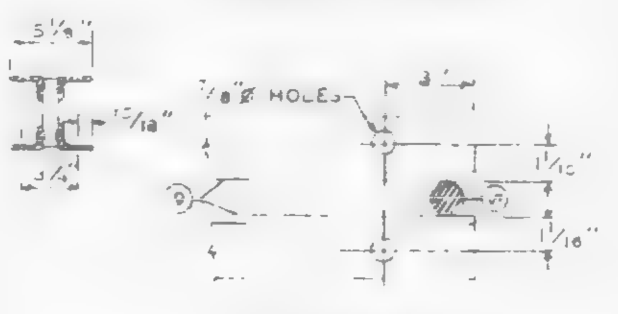
STEEL COMPANY

DESIGN DRAWING NO. 7-AB1-28
DRAWN BY dec DATE JAN 2, 1969
CHECKED BY T.M. CHUPA DATE JAN 21, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER
FABRICATION CONT. NO. 221
SHEET NO. ST 231

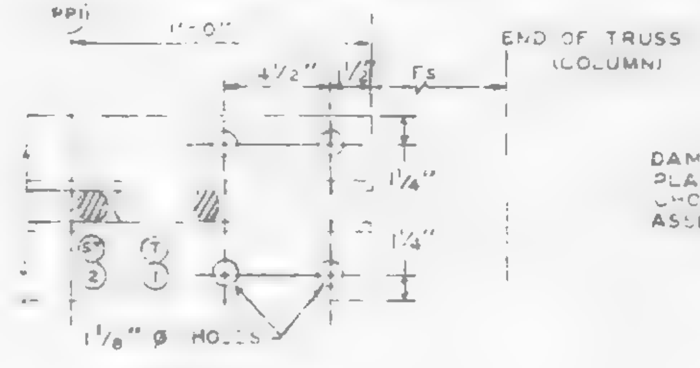


TRUSS ELEVATION





SECTION A-A



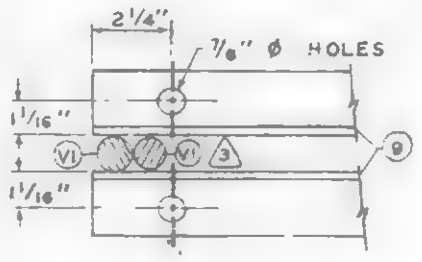
SECTION B-B

ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, ST294 & ST 287. ⚠3

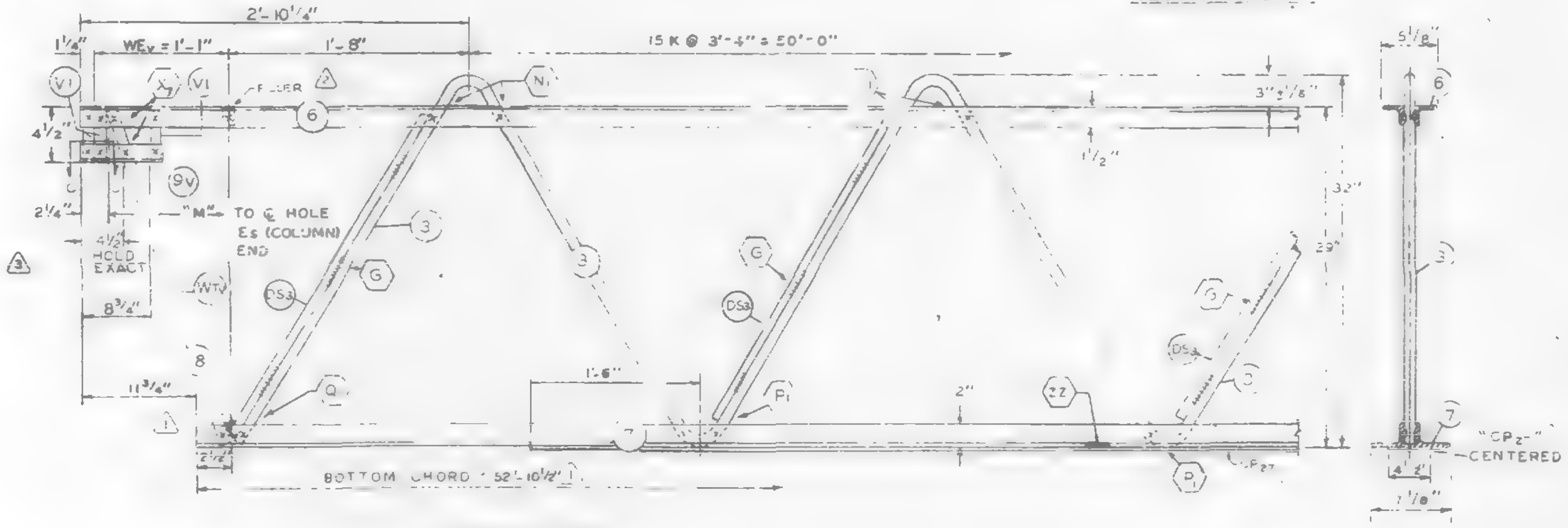
CHORD PLATE DETAILS SHOWN ON SHEET ST287.
SEE SHEET ST2... FOR ... DETAILS
LETTERS IN HEXAGONS INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., [R-1]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-0¾"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4



SECTION C-C



EL END (CORE)

NO.	DATE	REVISION	BY
3	3-3-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-28	1-6-68
7-AB1-52	2-15-68
7-AB4-14	1-3-68
7-AB-54	11-25-68
7-AB1-53	22-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD MK	TYPE STEEL	CHORD SIZE	LENGTH ⚠1	MAIN WEB MK	TYPE STEEL	DIA	LENGTH	[illegible]	[illegible]	[illegible]	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	[illegible]
C32T31-59075	6	A..	2"x1½"x 3..	[illegible]	[illegible]	A..	3"x2" x 37"	52'-10½"	3 / 3A	A242 / A242	.114 / .114	56'-0¾" / 40'-11⅞"	9K @ 3'-4" = 30'-0" / 16K @ 3'-4" = 21'-8"	.114	4	.14	5'-3"	CP27	.436	4"x.39	48'-10"	[illegible]

Es END	TRUSS DESIGNATION	MK	TYPE STEEL	CHORD SIZE	LENGTH	[illegible]	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	[illegible]	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T31-59075	9	A242	2"x1½"x 37 ⚠2	1'-10"	6'-1¼"	[illegible]	A242	.14	6'-3⅞"	2	A242	.14	1'-4⅞"	A242	.14	0'-4⅞"	242	4	2'-½"	S1	A242	.92	6'-3⅛"	DS3A	A242	.75	2'-6¾"

EL END	TRUSS DESIGNATION	BEARING ANGLE MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (3 REQ'D)	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER ⚠3 MK. VI TYPE STEEL	[illegible]	LENGTH (3 REQ'D)	WEB "WCV" MK	TYPE STEEL	[illegible]	LENGTH	WEB "NTV" MK	TYPE STEEL	[illegible]	DIA	LENGTH
	C32T31-59075	9V	A242	2"x1½"x 37"	0'-10"	1'-1"	DS3	A242	.98	2'-6¾"	—	—	—	—	A242	.14	1⅜"	—	—	—	—	8	A242	1	.114	2'-8⅞"

CHECK DIMENSION FOR TRUSS FAB.

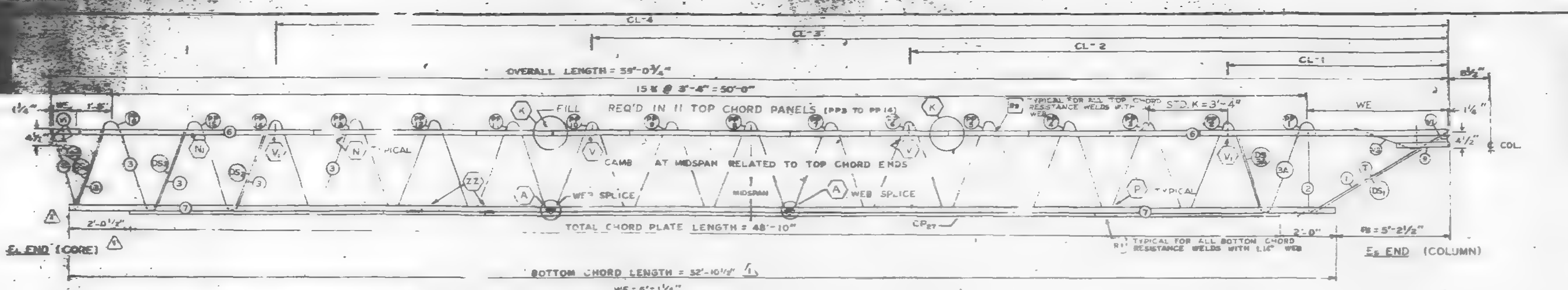
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

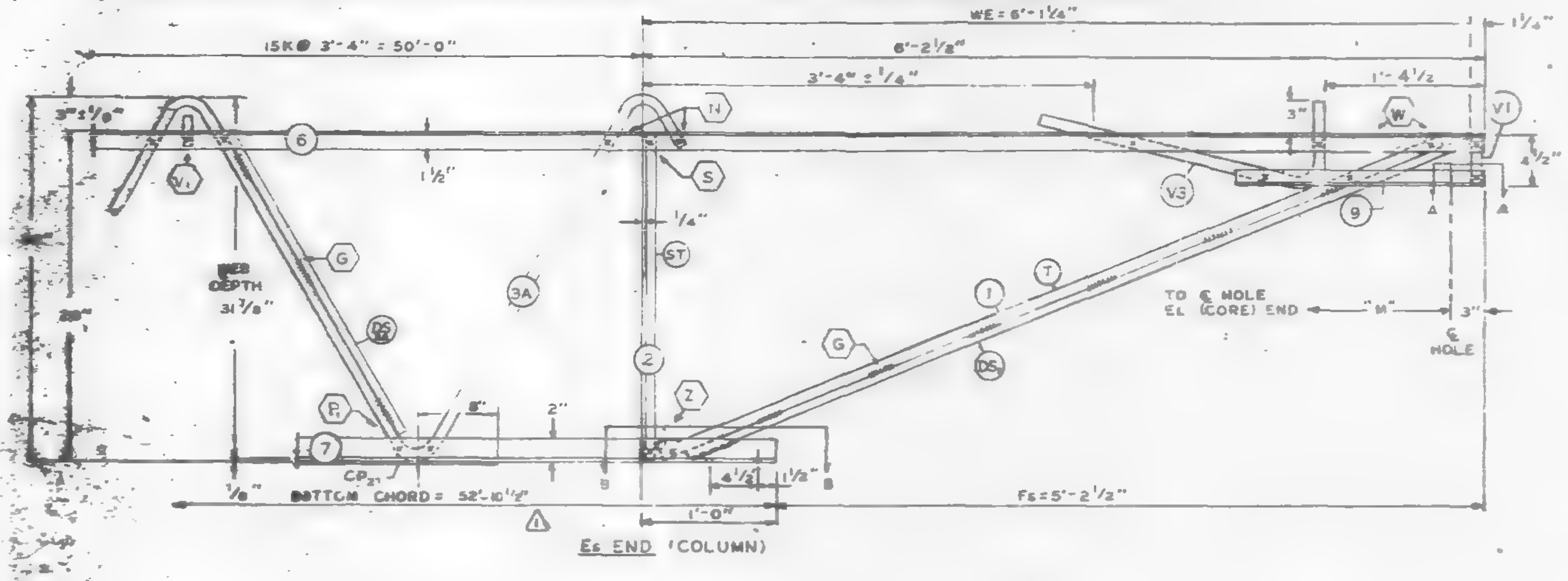
FLOOR TRUSS C32T31 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

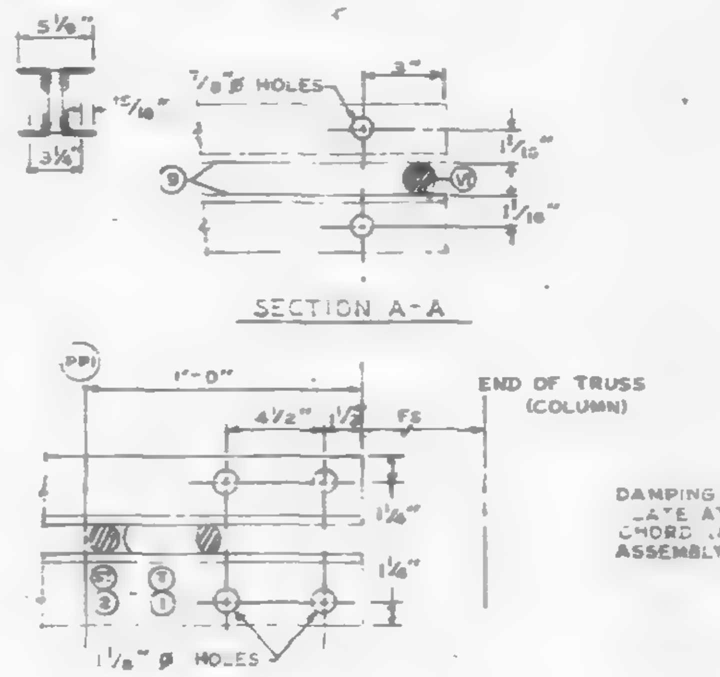
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED ... MADISON ...
APPROVED FOR FABRICATION FOR PONYA — James White — DATE 3/10/69
APPROVED FOR FABRICATION DATE
BY ... FOR FABRICATOR ...
DETAILED BY ...
7-AB1-28
DRAWN BY dee
DATE JAN 21, 1969
CHECKED BY ...
DATE JAN 21, 1969
2..



TRUSS ELEVATION





SECTION A-A

SECTION B-B

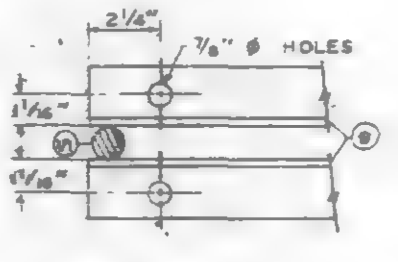
ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

CHORD PLATE DETAILS SHOWN ON SHEET ST287.
SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R-1]

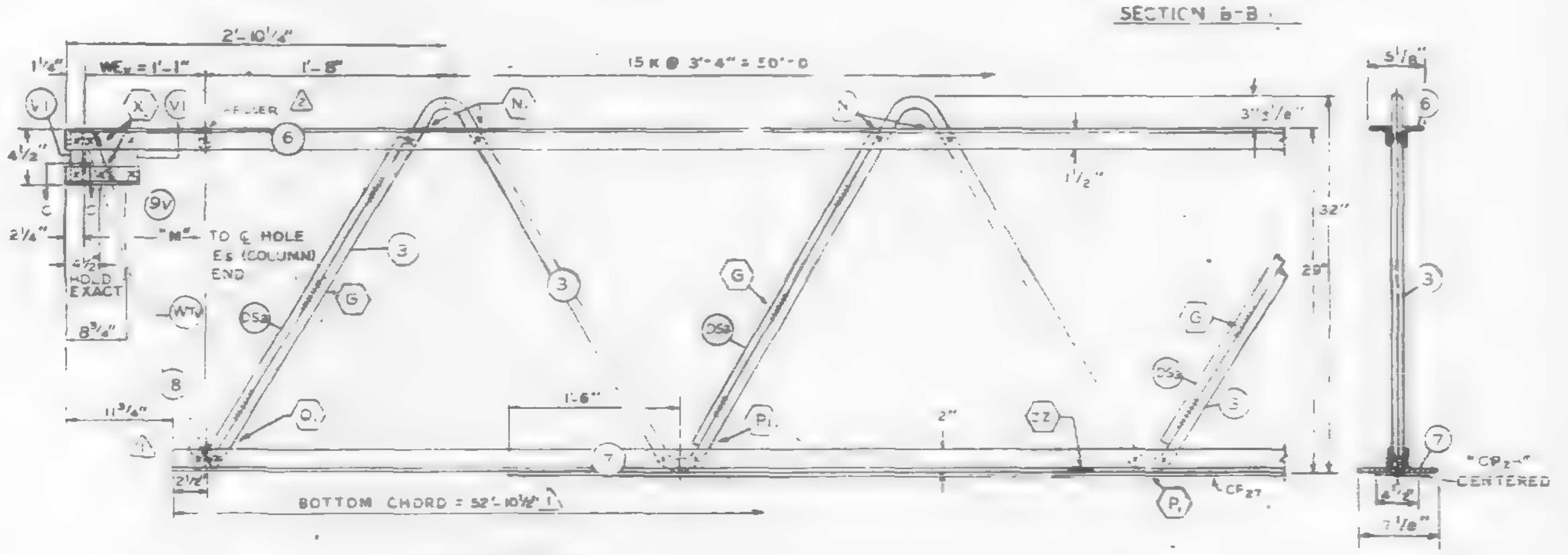
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN		[illegible]
DESIGN DEPTH		± 1/4"
PANEL "K"	3'-4"	± 1/.
OVERALL LENGTH	59'-0¾"	± 1/8"
WEB DEPTH	31 7/8"	± 1/4



SECTION C-C



EL END (CORE)

NO.	DATE	REVISION	BY
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.B.C.

REF. DRWG.

7-AB1-28	1-6-69
7-AB1-52	2-13-69
7-AB4-14	1-3-69
7-AB1-54	8-25-68
7-AB1-53	7-22-68
7-AB2-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	NO. OF P	FILLER NO.	DIA.	CONNECTION FILLER NO.	DIA.	LENGTH	CHORD PLATE MK.	TYPE STEEL	SIZE	LENGTH	"M" ⅞ HOLES
C32T31-59075	6	A242	2"x1½"x.37	59'-0¾"		A36	5"x2"x.37"	52'-10½"	3 3A	A242 A242	.14 .14	56'-0¾" 40-11¼"	9K @ 3'-4" = 30'-0" 6½K @ 3'-4" = 21'-8"	2	.14	4	.14	0'-3"	CP27	A36	4"x2x.39	48'-10"	58'-?½"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK.	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "DS" STRUT MK.	TYPE STEEL	DIA.	LENGTH	VERTICAL "ST" STRUT MK.	TYPE STEEL	DIA.	LENGTH	V1 TYPE STEEL	DIA.	LENGTH	END V3 STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
C32T31-59075	9	A242	2"x1½"x.37	1'-10"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	0'-4⅜"	A242	.4	3½"	DS1	A242	.92	6'-3⅛"	DS	A242	.75	2'-6¾"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLE MK.	TYPE STEEL	CHORD SIZE	LENGTH	WEV	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH (3 REQ'D)	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V TYPE STEEL	DIA.	LENGTH (2 REQ'D)	WEB "WCV" MK.	TYPE STEEL	PCS.	DIA.	LENGTH	WEB "WTV" MK.	TYPE STEEL	PCS.	DIA.	LENGTH
C32T31-59075	9V	A242	2"x1½"x.37"	0'-10"	1'-1"	DS2	A242	.98	2'-6¾"	—	—	—	—	A242	1.14	4⅜"	—	—	—	—	—	8	A242	1	1.14	2'-6⅞"

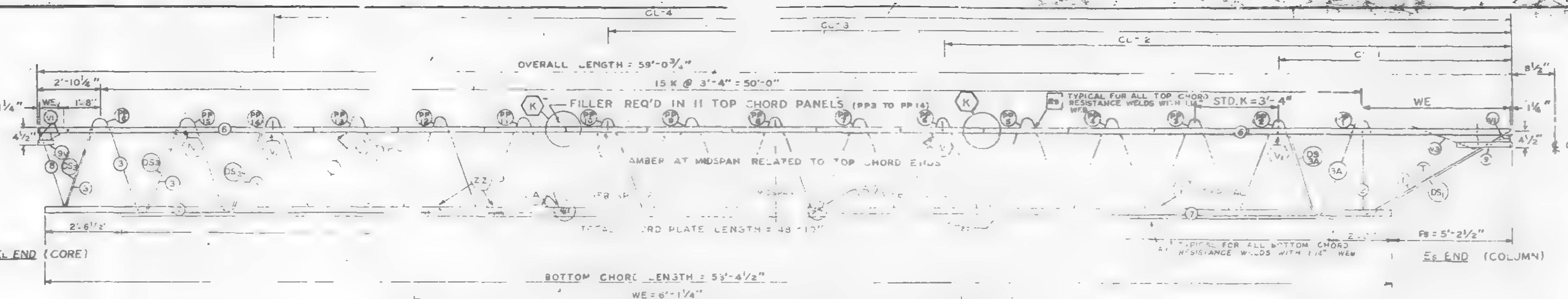
CHECK DIMENSION FOR TRUSS FAB.

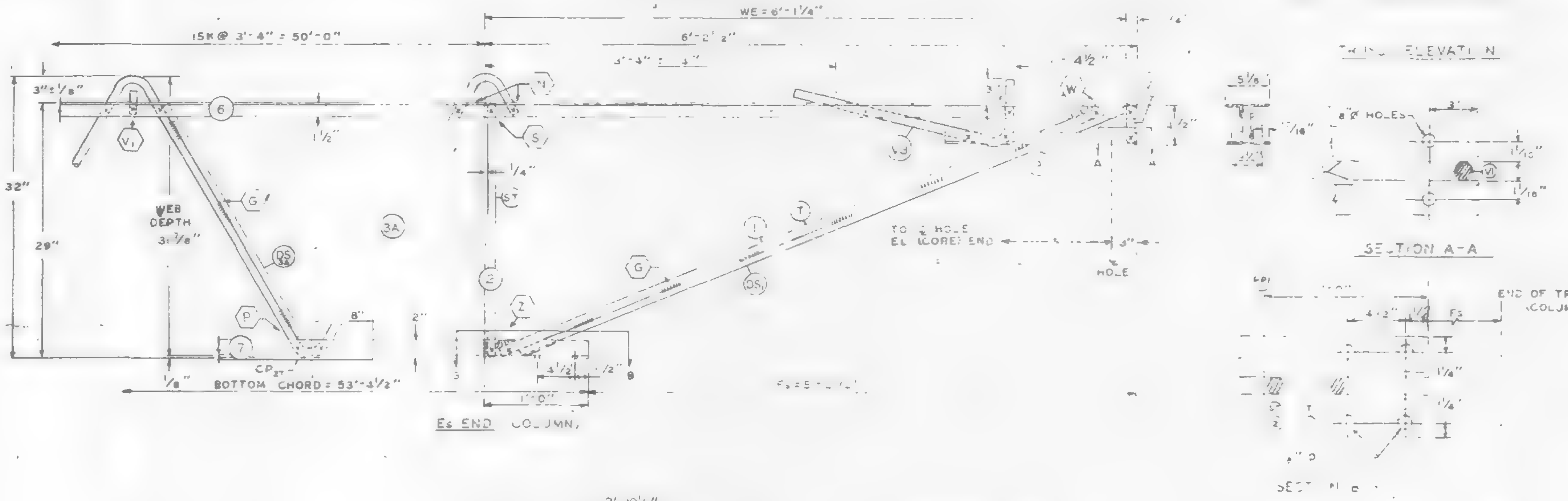
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

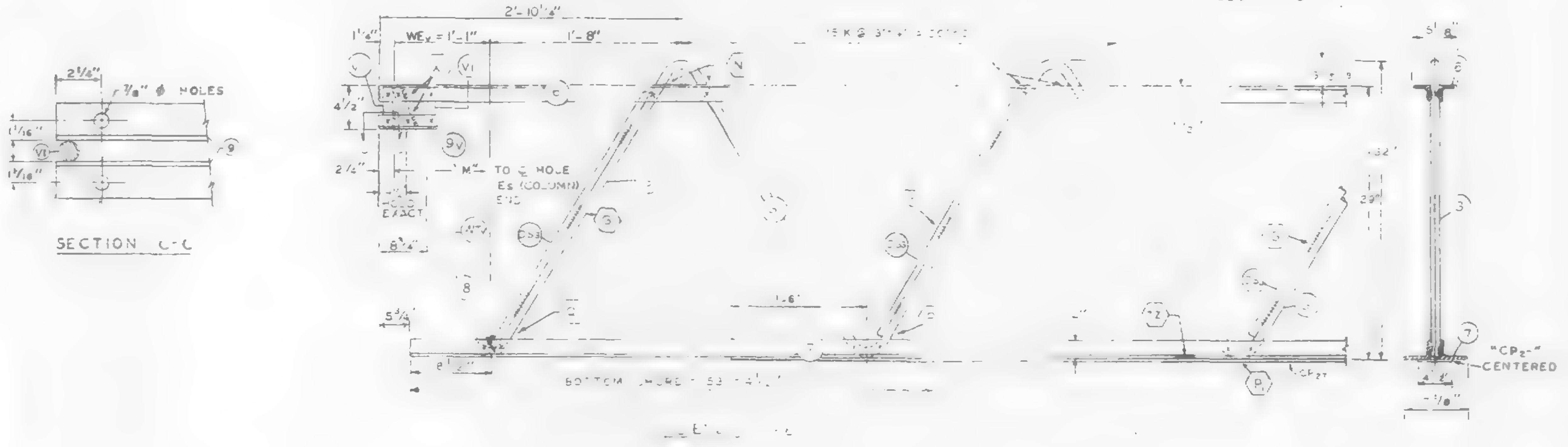
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T31 — 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-28
PLATE 1
APPROVED FOR FABRICATION BY ______ FOR P.O.N.Y.A. DATE ______
DRAWN BY: ______ DATE JAN. 21, 1969
APPROVED FOR FABRICATION BY ______ FOR FABRICATOR DATE ______
CHECKED BY: T.B.OKURA DATE JAN. 21, 1969
IN CHARGE OF PROD. REV.
DETAILED BY: A. CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST 231







FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3 9"
DESIGN DEPTH	29"	± 1/4"
PANEL K"	3'-4'	± 1/4"
OVERALL LENGTH	5	± 3/8'
WEB DEPTH	3 9"	± 1/

ALL PANEL POINTS RESISTANCE WELDED.
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES.
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

CHORD PLATE DETAILS SHOWN ON SHEET ST287.
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [R-1]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD ASSEMBLY BY CONTRACT K.T.C. 223.00.

NO.	DATE	REVISION	BY

VOID

REF. DRWG.

7-AB1-28	11-6-68
7-AB3-70	11-25-68

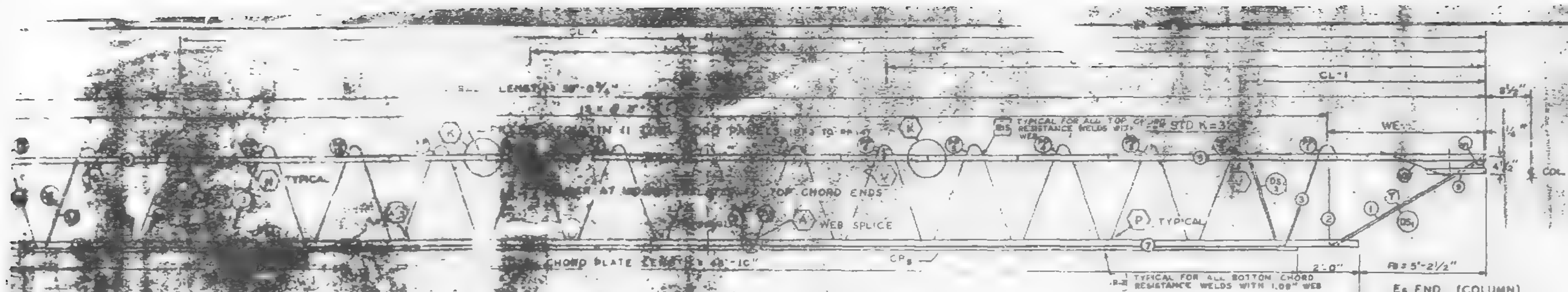
CHECK DIMENSION FOR TRUSS FAB.				
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

PAINT
LACLEDE ELECTROCOAT RED NO 10001

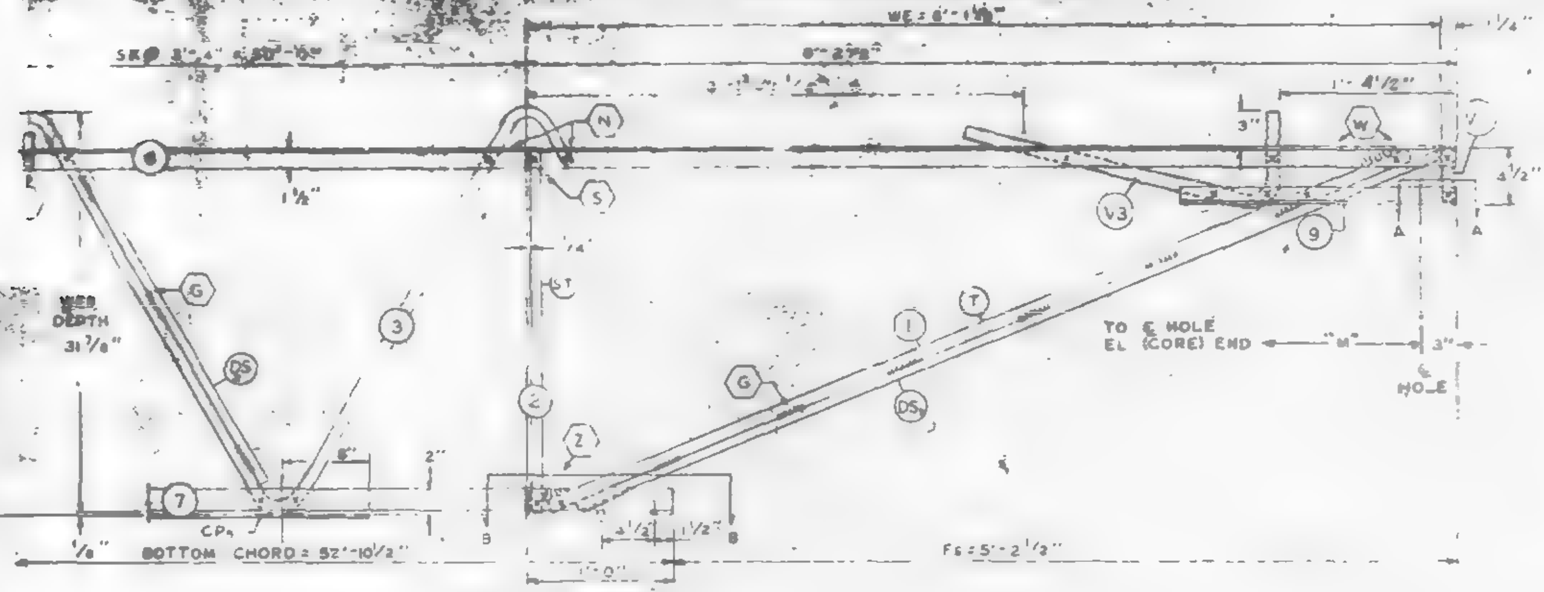
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T31 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

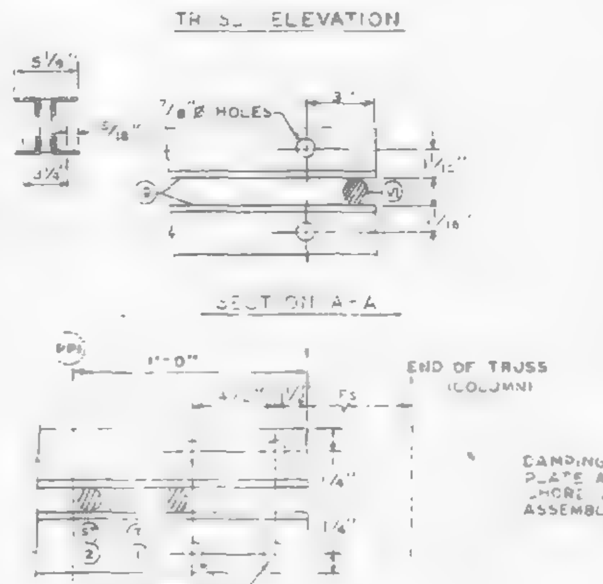
FABRICATION BY LACLEDE STEEL COMPANY
DESIGN DRAWING NO. 7-AB1-28
DRAWN BY dec DATE JAN 21, 1969
CHECKED BY T.M. CHURA DATE JAN. 21, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
DETAILED BY A. CARL WEBER
FABRICATION CONT. NO. WTC 221
SHEET NO. ST 231



E_s END (COLUMN)



E_s END (COLUMN)



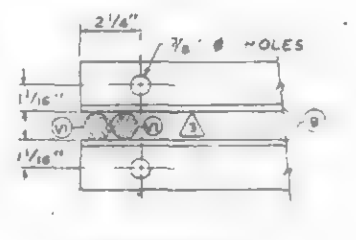
SECTION A-A

SECTION B-B

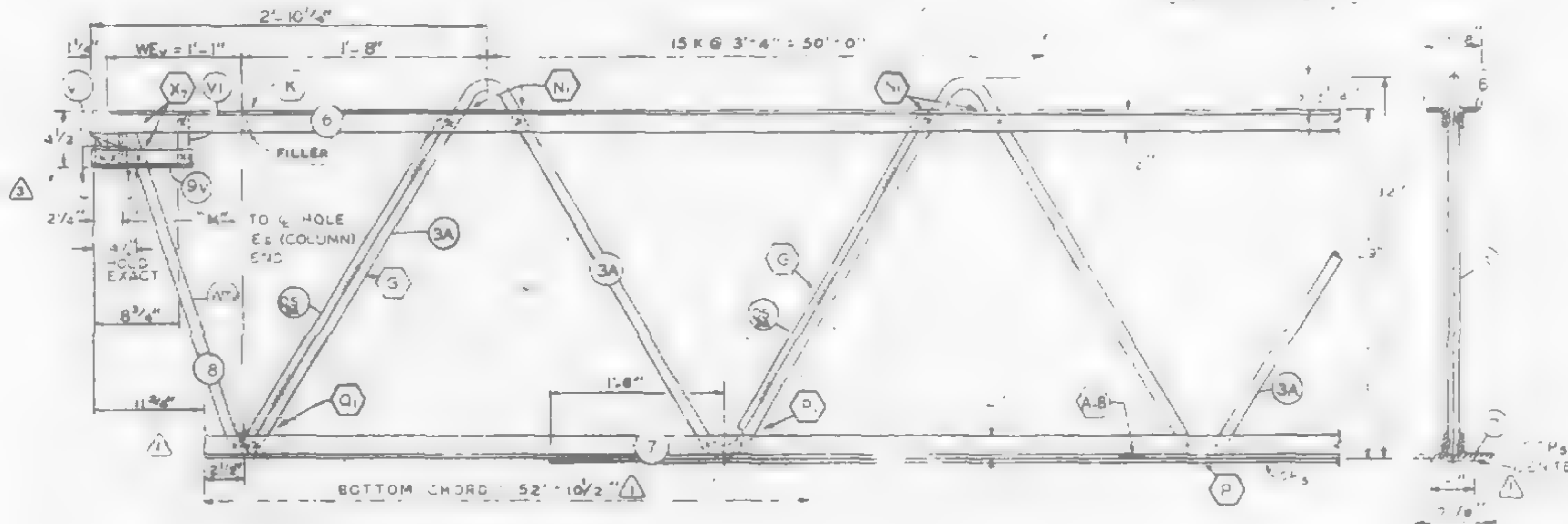
ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, ST 294 & ST 286. (3)

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., [R-2]

[illegible] UNIT CONNECTION [illegible] ATTACHED TO BOTTOM [illegible] END IN FIELD [illegible] BY CONTRACT W.T.C. 223.00.



SECTION C-C



E_L END (CORE)

NO.	DATE	REVISION	BY
4	3-11-69	AS NOTED	G.D.C.
3	3-3-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-29-69	AS NOTED	T.M.C.

REF. DRWG.

7-ABI-29	1-6-69
7-ABI-52	2-15-69
7-AB6-14	1-3-69
7-ABI-54	11-25-68
7-ABI-53	[illegible]-22-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD [illegible] ANGLES				MAIN [illegible] "W" (2)					FILLER		CONNECTION [illegible] (2)			[illegible]				[illegible]
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH (1)	MK.	TYPE STEEL	DIA	LENGTH	[illegible]	NO.	DIA	NO.	DIA	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	[illegible]
C32T32-590S	5	A242	2"x1½"x[illegible]	9'-[illegible]¾	7	A36	3"x2"x.37"	52'-10½"	3 / 3A	A36 / A242	1.09 / 1.14	[illegible]	[illegible] 3'-4" = 4'-8" / [illegible] 3'-4" = 10'-0"	12	1.09	3 / 1	1.09 / 1.14	[illegible]	P_s	A36	4"x[illegible]	48-10"	[illegible]

COLUMN END	E_s	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "[illegible]" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			MK. V3			DOUBLE STRUT				DOUBLE STRUT			
	E		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
		C32T32-590S	9	A242	2"x1½"x.37 (2)	2'-5"	6'-1¼"	[illegible]	A242	1.14	6'-3⅛"	[illegible]	A242	1.14	2'-4⅞"	A242	1.14	0'-[illegible]"	A242	1.14	2'-8½"	DS_1	A242	.75	6'-3[illegible]"	DS_3	A242	.75	2'-6¾"

CORE END	E_L END	TRUSS DESIGNATION	BEARING ANGLE				WE_v	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER (2) MK. V1			WEB "WC_v"					WEB "WT_v"				
			MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK.	TYPE STEEL	PCS	DIA	LENGTH	MK.	TYPE STEEL	PCS	DIA	LENGTH
		C32T32-590S	9V	A242	2"x1½"x.37 (2)	0'-10"	1'-1"	[illegible]	A242	.75	2'-6¾"	—	—	—	—	A242	1.14	[illegible]¾"	—	—	—	—	—	9	A242	1	1.14	2'-8[illegible]"

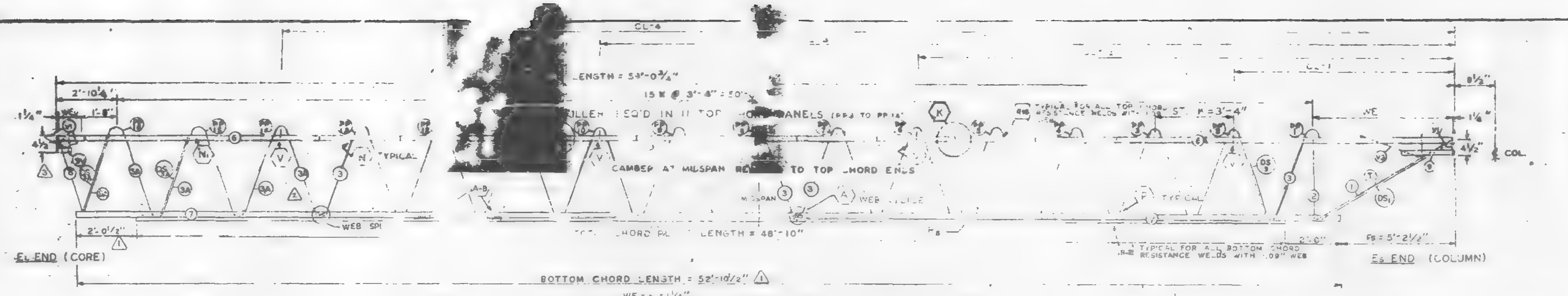
CHECK DIMENSION FOR TRUSS FAB.

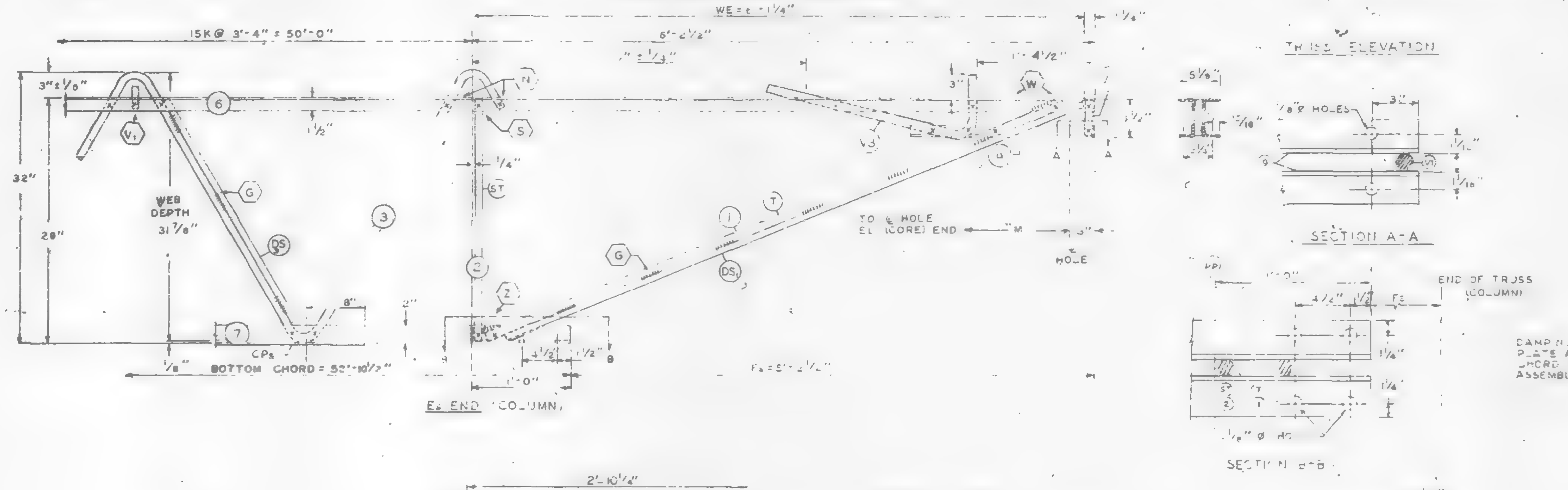
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T32 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED MADISON, ILLINOIS	DESIGN DRAWING NO. 7-ABI-29	PLATE
APPROVED FOR FABRICATION FOR PONYA — DATE 3/24/69	DRAWN BY [illegible] DATE JAN. 21, 1969	
APPROVED FOR FABRICATION FOR FABRICATOR — DATE	CHECKED BY: T.M.CHURA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A. CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 232

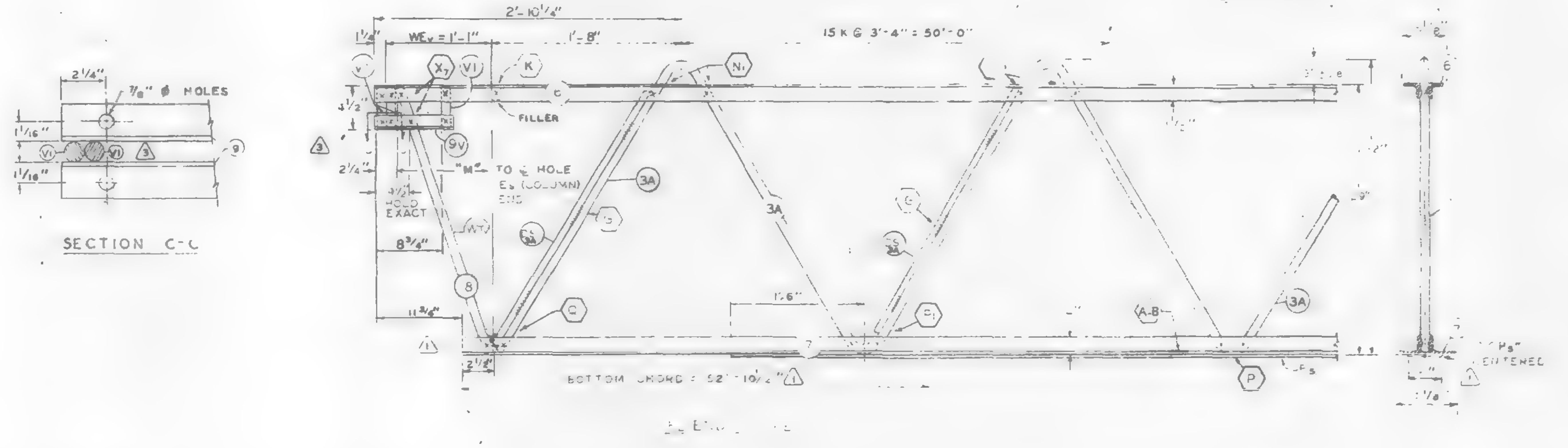




ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, ST294 & ST286. (3)

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST295 FOR VI & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., [R-2]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.



FABRICATION RE[illegible]S	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	[illegible]	± [illegible]/8"
DESIGN DEPTH	[illegible]	± 1/4"
PANEL "K"	[illegible]	± 1/4"
OVERALL LENGTH	[illegible]	± 3/8"
WEB DEPTH	[illegible]	± 1/4

NO.	DATE	REVISION	BY
3	3-3-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-29-69	AS NOTED	T.M.C.

REF. DRWG.

7-A81-29	1-6-68
7-A81-52	2-15-68
7-A84-14	1-3-68
7-A81-54	11-25-68
7-A81-53	7-22-68
7-A88-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	[illegible]								
C32T32-59075	5	A242	[illegible] x 1½" x 31"	[illegible]	A242	[illegible] x 37"	52'-10½"	3 / 3A	A36 / A242

1.09 / 1.14	[illegible]	3'-4" = 41-8 / 3'-4" = 10-0	3 / 1.09 / 1.14	0'-3"	Fs	4¾ 48

COLUMN END

Es END	TRUSS DESIGNATION	MK.	TYPE STEEL	[illegible]	LENGTH	[illegible]	[illegible]	DIA	LENGTH	TYPE	DIA
	C32T32-59075	9	A242	2" x 1½" x 37	2'-3"	6-¼"	A242	.14	6'-3⅛"	A242	.14

DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
[illegible]	A242	.75	6'-3⅛"	DS_3	A242	.75	2'-6¾"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLE MK.	TYPE STEEL	SIZE	LENGTH	WEV	DOUBLE STRUT	TYPE	DIA	LENGTH (2 REQ.)	DOUBLE STRUT	END STIFFENER (3) TYPE STEEL			WEB "WCV"	WEB "WTV"
	C32T32-59075	9V	A242	2" x 1½" x 37"	0'-10"	1'-1"	DS_{3A}	A242	.75	2'-9¾"	[illegible]	A242	.14	3⅛"	[illegible]	8 A242 .14

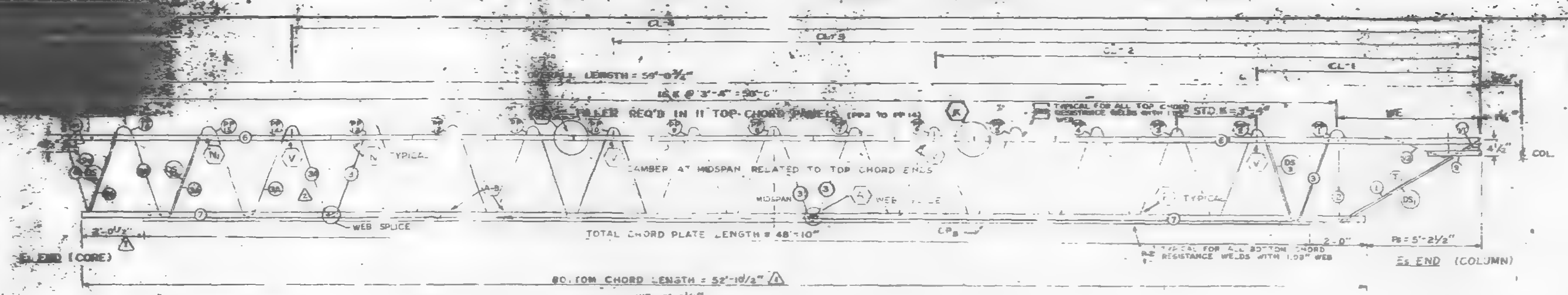
CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

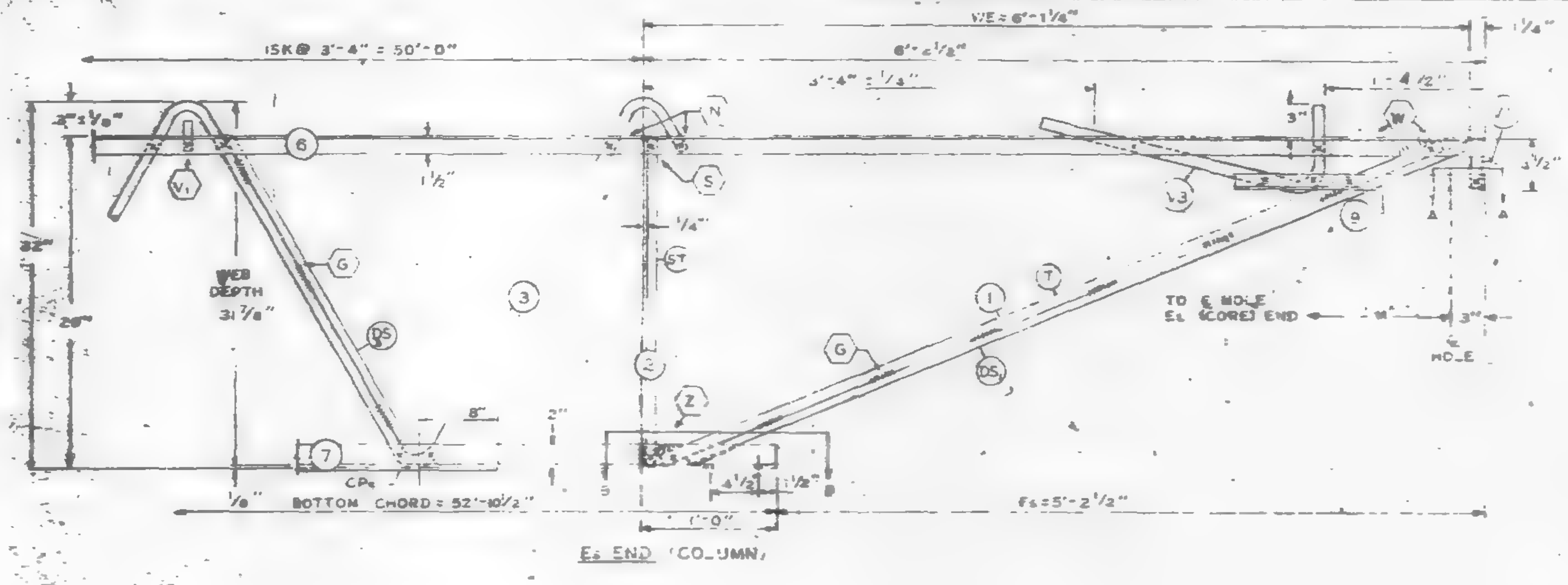
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T32 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

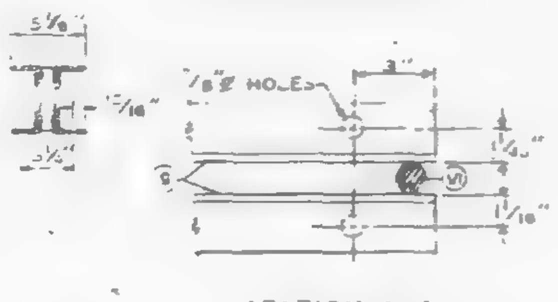
FABRICATION BY [illegible] STEEL COMPANY
[illegible] 7-A81-29
James White [illegible] 3/10/69 JAN 21, 1969
APPROVED FOR FABRICATION [illegible] BY T.M.CHURA
JAN 21, 1969
ST 232



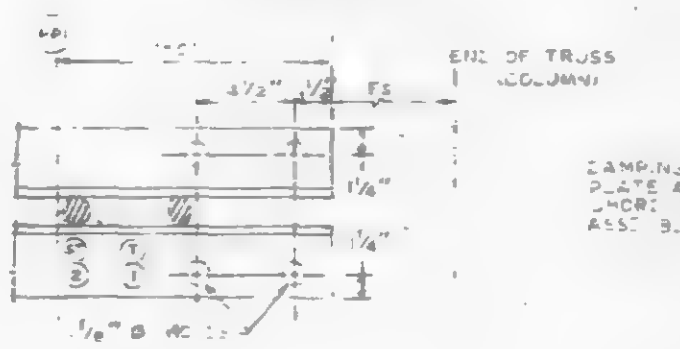
FABRICATION REQUIREMENTS		
PANEL "K"	3'-4"	[illegible]
OVERALL LENGTH	59'-0¾"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4



TRUSS ELEVATION



SECTION A-A

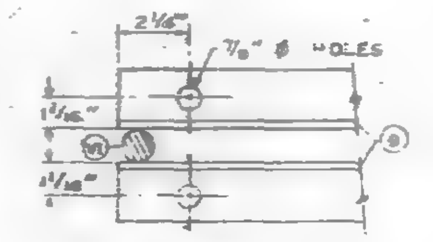


SECTION B-B

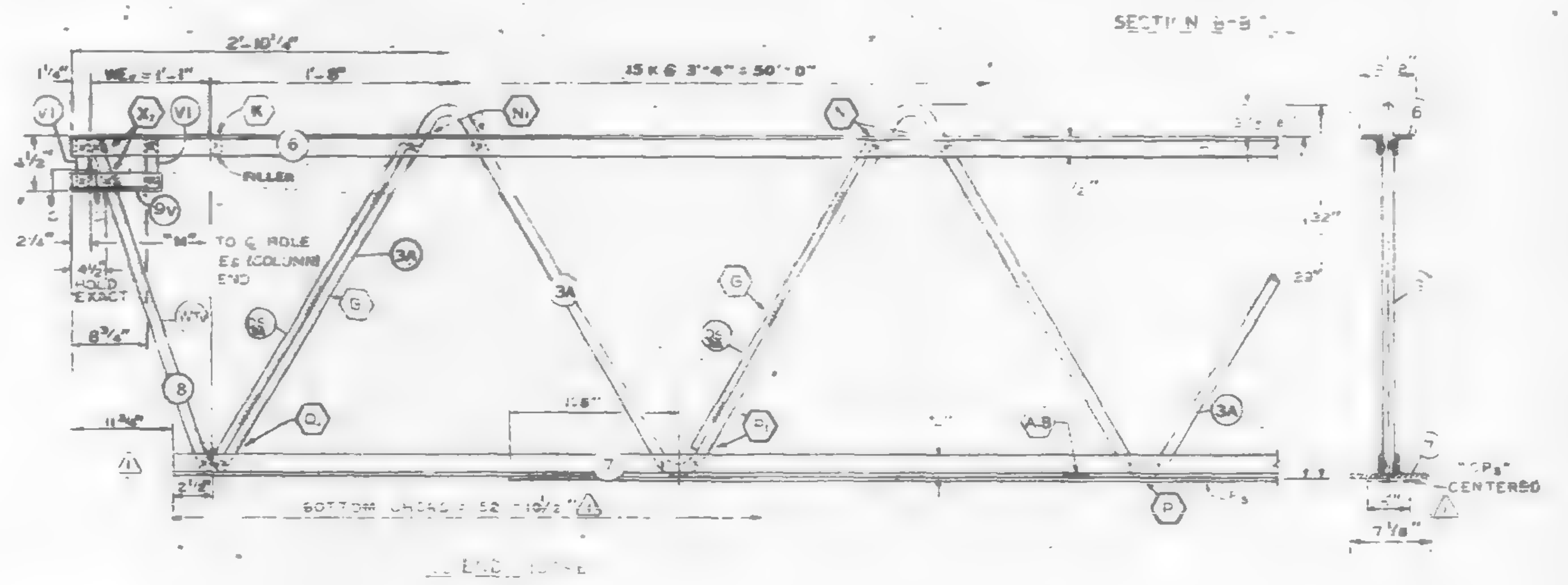
ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST286.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST245 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. R-2

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD ASSY. BY CONTRACT W.T.C. 223.00.



SECTION C-C



NO.	DATE	REVISION	BY
2	2-18-69	AS NOTED	T.M.C.
1	1-29-69	AS NOTED	T.M.C.

REF. DRWG.

7-AB1-29	1-6-69
7-AB1-52	2-15-69
7-AB4-14	1-3-69
7-AB1-54	11-25-69
7-AB1-53	7-22-69
7-AB3-70	11-25-69

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				[illegible]				[illegible]			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
C32T32-59075	6	A242	2"x1½"x.31"	[illegible]	[illegible]	A36	3"x2"x.37"	52'-10½"	3 / 3A	A36 / A242	1.09 / 1.14	[illegible]

	TRUSS DESIGNATION	BEARING ANGLES				[illegible]	[illegible]				[illegible]				DOUBLE STRUT				DOUBLE STRUT			
COLUMN Es END		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA	LENGTH	MK.	TYPE STEEL	DIA	LENGTH
	C32T32-59075	9	A242	2"x1½"x.37	2'-5"	6'-1¼"		A242	.14	6'-3⅞"		A242	.14	[illegible]	DS₁	A242	.75	5'-3⅛"	DS₂	A242	.75	2'-6¾"

	TRUSS DESIGNATION	BEARING ANGLE				WEV	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER MK. V1			WEB "W₁V"					WEB "NTV"				
CORE El END		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK.	TYPE STEEL	DIA	LENGTH	TYPE STEEL		LENGTH (2 REQ'D)	MK.	TYPE STEEL			LENGTH	MK.	TYPE STEEL		DIA	LENGTH
	C32T32-59075	9V	A242	2"x1½"x.37	0'-10"	1'-1"	DS₃	A242	.75	2'-6¾"	—	—	—	—	A242	1.14	4⅜"	—	—	—	—	—	8	A242		1.14	2'-6¼"

CHECK DIMENSION FOR TRUSS FAB.

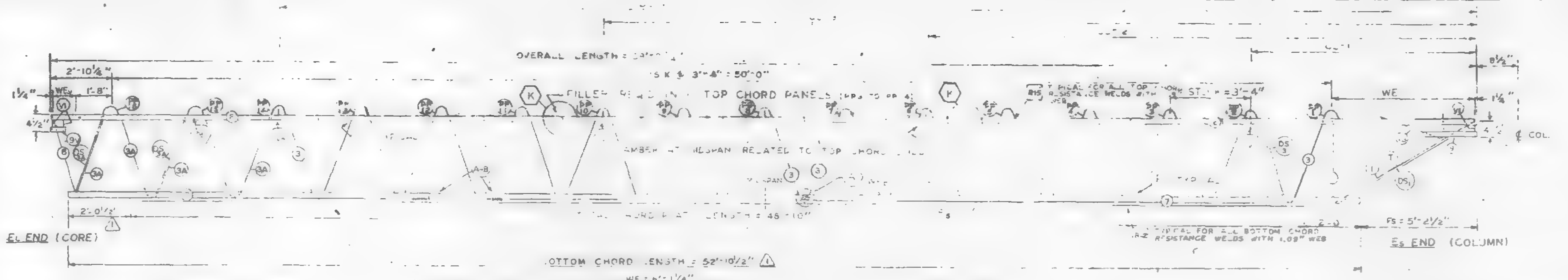
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

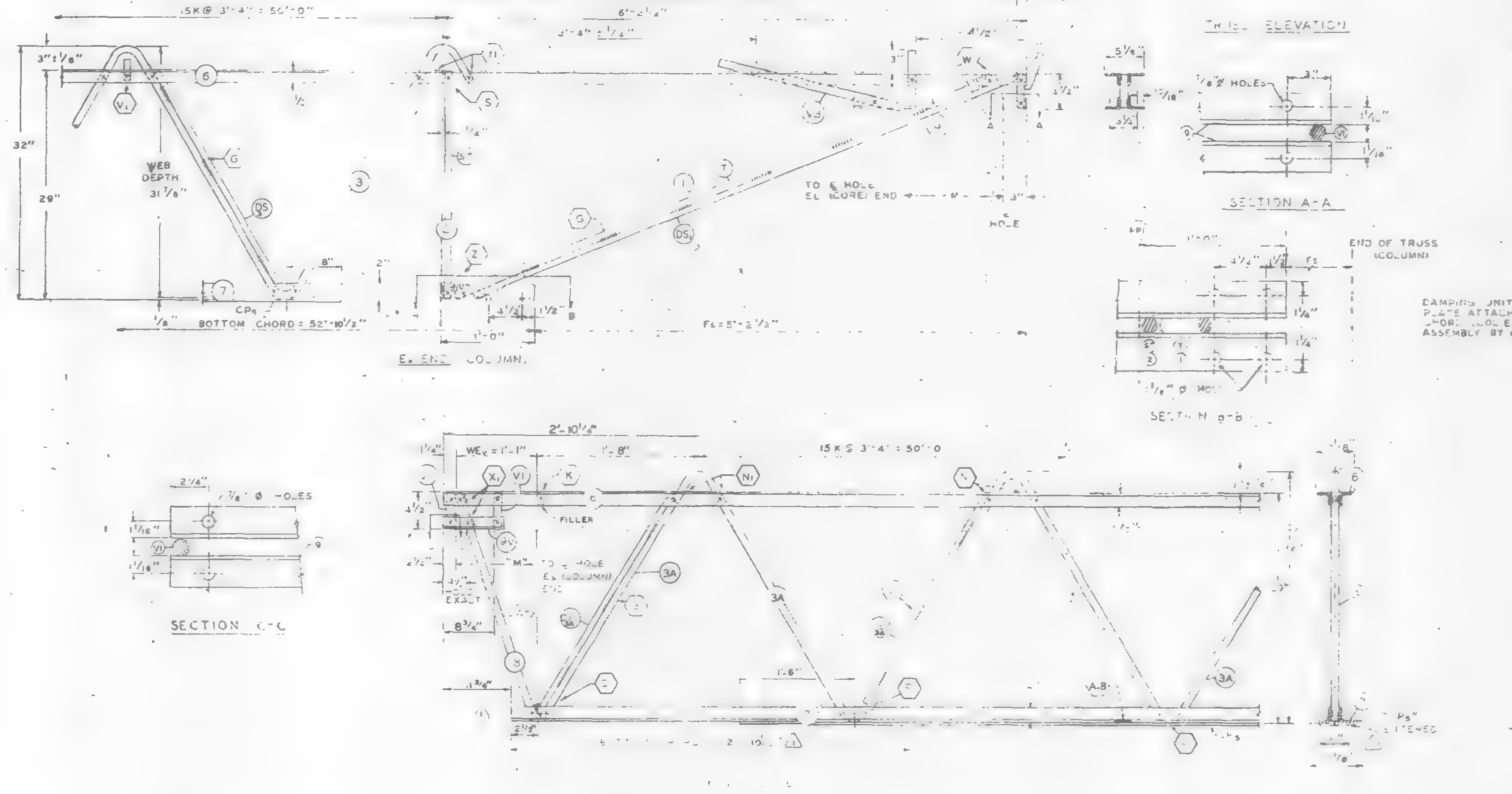
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T32 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-29	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE 2/24/69	DRAWN BY DATE JAN. 21, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY: T.M.CHURA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 232





FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-0 3/4"	± 3/8"
WEB DEPTH	31 7/8"	1/4

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST288.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST243 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. ⟨A⟩
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., [R-2]

1-29-88 AS NOTED — T.M.C.

NO.	DATE	REVISION	BY

REF. DRWG.

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	[illegible]
C32T32-59075	5 A242 ... 3A A242 52'-10 1/2" 3A A242 1.09 8'-0 1/4" 13K 3'-4" = 43'-4" 14 14 ... 4 1/4" 48'-10" 7

COLUMN END

E₂ END	TRUSS DESIGNATION	...	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH
	C32T32-59075	9 A242 2" x 1 1/2" x 3/16" 2'-3" ... A242 1.14 6'-3 1/8" ... A242 1.14 ...	DS₁	A242	.75	6'-3 1/8"	DS₃	A242	.75	2'-6 3/4"

CORE END

E₁ END	TRUSS DESIGNATION	BEARING ANGLE MK.	TYPE STEEL	SIZE	LENGTH	WE₁	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	DOUBLE STRUT MK.	TYPE STEEL	DIA.	LENGTH	END STIFFENER TYPE STEEL	[illegible]	LENGTH (2 REQ'D)	WEB "W" MK.	TYPE STEEL	DIA.	LENGTH	WEB "ATV" MK.	TYPE STEEL	DIA.	LENGTH
	C32T32-59075	9V	A242	2" x 1 1/2" x 3/16"	0'-10"	1'-1"	DS3A	A242	.75	2'-6 3/4"	—	—	—	—	A242	1.14	4 3/8"	—	—	—	—	8	A242	1.14	2'-8 1/4"

CHECK DIMENSION FOR TRUSS FAB.

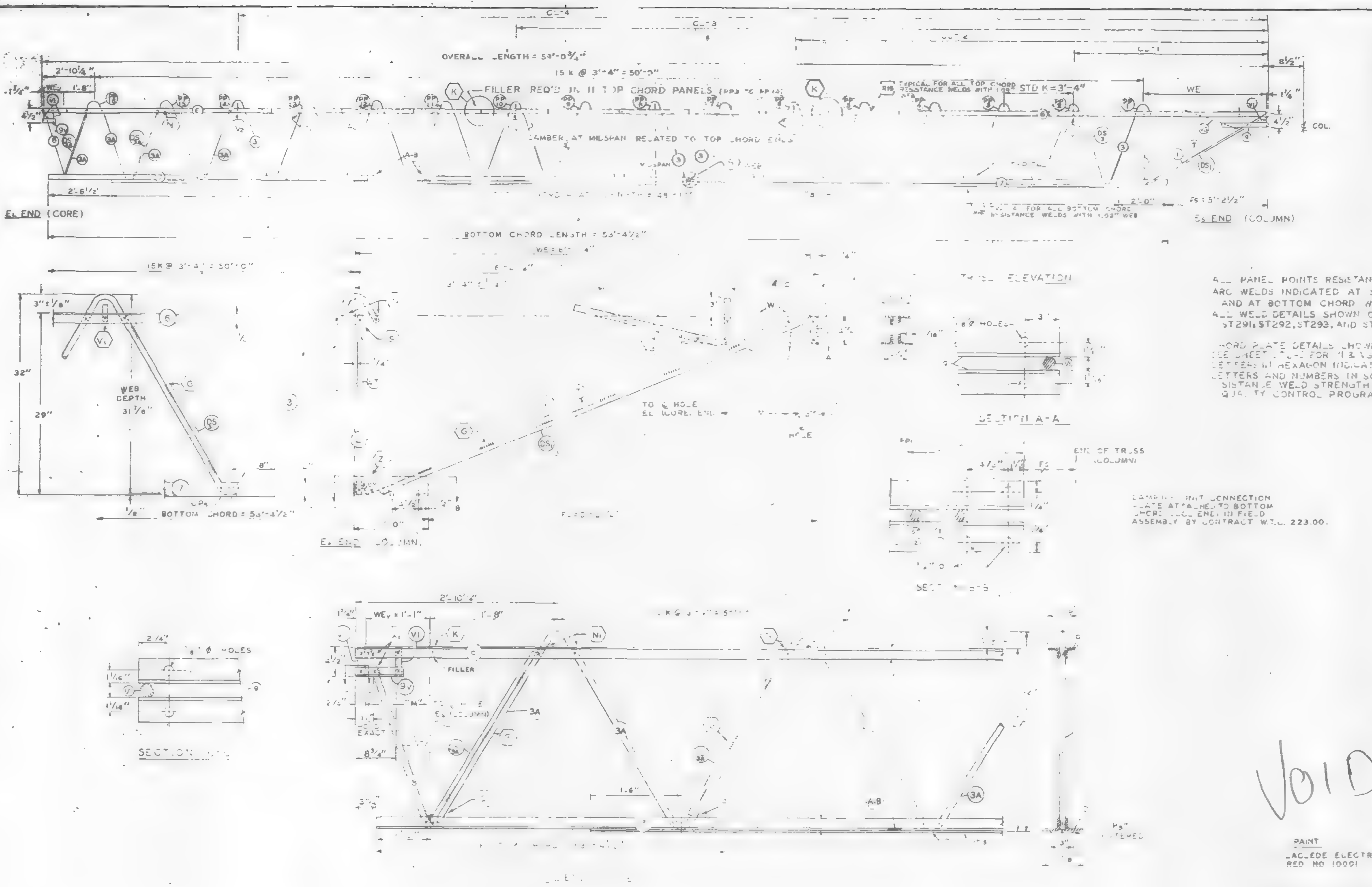
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
3'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T32 — 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. [illegible]	
APPROVED FOR FABRICATION DATE BY FOR P.O.N.Y.A.	DRAWN BY Jec DATE JAN 21, 1969	
APPROVED FOR FABRICATION DATE BY FOR FABRICATOR	CHECKED BY T.M.CHURA DATE JAN 21, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO. DETAILED BY A. CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 232



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	+ 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	[illegible]	± 1/4"
OVERALL LENGTH	-0 3/4"	± 3/8"
WEB DEPTH	31 7/8"	± 4

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290,
ST291, ST292, ST293, AND ST288.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET [illegible] FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. R-2

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (CORE END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

VOID

NO.	DATE	REVISION	BY

REF. DRWG.

7-AB1-29	[illegible]
7-AB1-52	[illegible]
7-AB4-14	[illegible]
7-AB1-54	[illegible]
7-AB1-53	[illegible] 22-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10091

TRUSS DESIGNATION																		
C32T32-59075	6	[illegible]	[illegible]	[illegible]	53'-4 1/2"	3 / 3A	A36 / A242	1.09 / 1.14	81'-10 1/2" / 15'-6 7/8"	13 K 3'-4" = 43'-4" / 2 1/2 K = 3'-4" = 8'-4"	[illegible]	14	[illegible]	14	[illegible]	[illegible]	3"x1/4"	48'-10"

COLUMN END

Es END TRUSS DESIGNATION	MK.	TYPE STEEL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK.	TYPE STEEL	DIA	LENGTH
C32T32-59075	9	A242	2 1/2"x1 1/2" [illegible] 2'-3"	[illegible]	14	6'-3 1/8"	A242	14	[illegible]	[illegible]	DS1	A242	.75	6'-3 1/8"	DS3	A242	.75	2'-6 3/4"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLE	WE	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER	WEB "W1V"	WEB "NTV"
C32T32-59075	9V A242 2"x1 1/2"x [illegible] 0'-10"	[illegible]	DS3A A242 .75 2'-5 3/4"	—	A242 14 4 3/8"	—	8 A242 14 2'-6 1/4"

CHECK DIMENSION FOR TRUSS FAB.

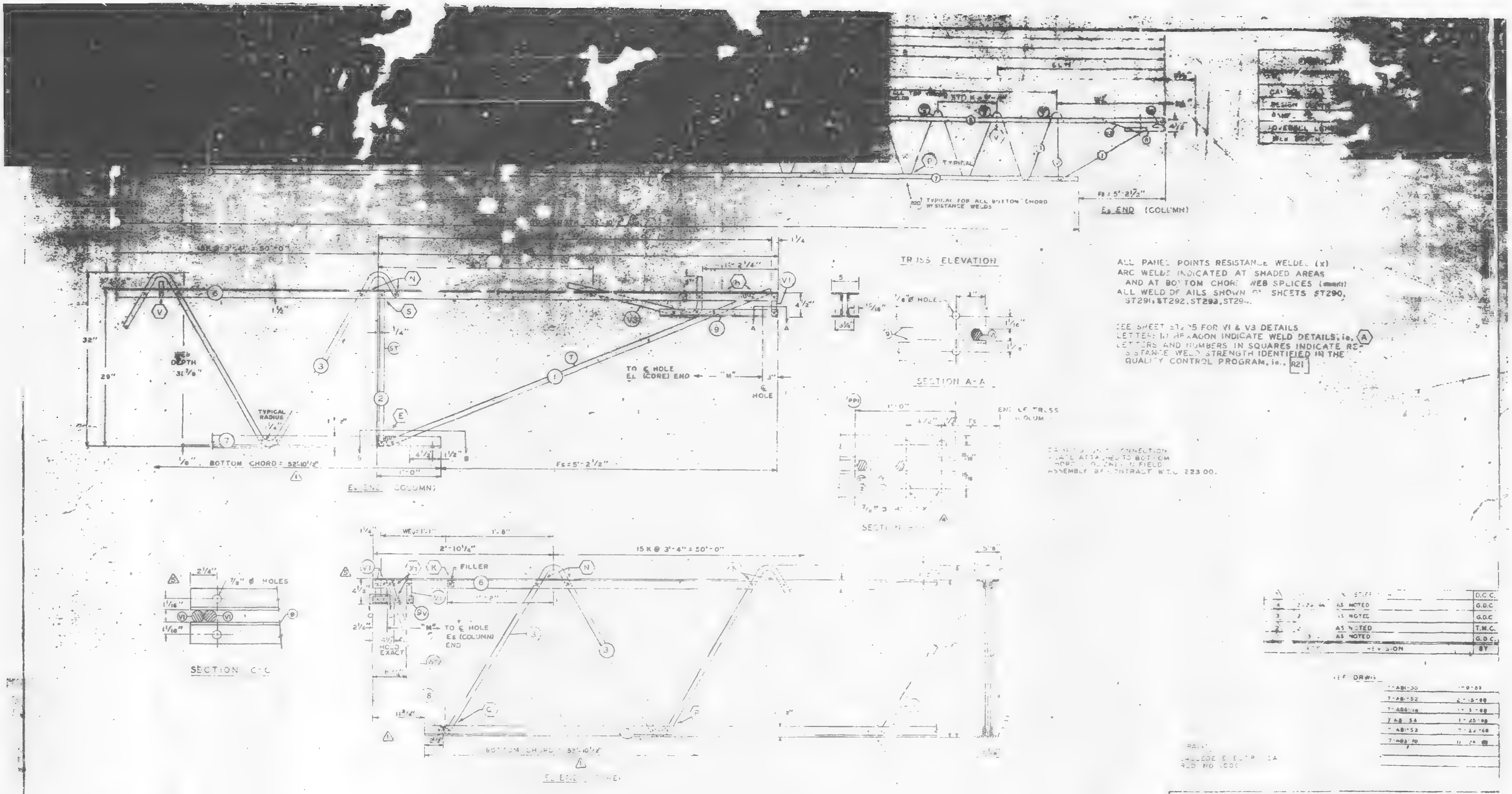
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T32 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-8

FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON	DESIGN DRAWING NO. [illegible]-AB1-29	
APPROVED FOR FABRICATION BY ___ FOR P.N.Y.A. DATE	DRAWN BY Joe DATE JAN. 21, 1969	
APPROVED FOR FABRICATION BY ___ FOR FABRICATOR DATE	CHECKED BY T.M. CHURA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY [illegible]	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 232



TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MAIN WEB "A" MK	TYPE STEEL	DIA	LENGTH	[illegible]	MK	DIA	CONNECTION FILLER MK	DIA	LENGTH	MK	TYPE STEEL	LENGTH
C32T33-59075	6	A242	2"x1½"x.[illegible]"	59'-0¾"	7	[illegible]	2"x1¼"x.[illegible]"	52'-10½"	[illegible]	A36	1.09	97'-0"	15½ K @ 3'-4" = 51'-8"	11	1.09	4	1.09	0'-3"	–	–	–

COLUMN END

Es END	TRUSS DESIGNATION	MK	TYPE STEEL												
	C32T33-59075	9	A242	2"x1½"x.37"	1'-10"	[illegible]	A242	.14	[illegible]	A242	.14	2'-4⅞"	[illegible]	.114	[illegible]

CORE END

El END TRUSS DESIGNATION	BEARING ANGLE MK	TYPE STEEL	CHORD SIZE	LENGTH	WEV	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH 3 REQ'D	WEB "WCV" MK	TYPE STEEL	PC	[illegible]	LENGTH	WEB "WTV" MK	TYPE STEEL	[illegible]	DIA	LENGTH
C32T33-59075	9V	A242	2"x1½"x.37"	0'-10"	-	-	-	-	-	—	—	—	—	A36	.109	4⅜"	—	—	—	-	—	8	A36	1	.109	2'-6¼"

FLOOR TRUSS DETAILS

WORLD TRADE CENTER – N.Y.C.

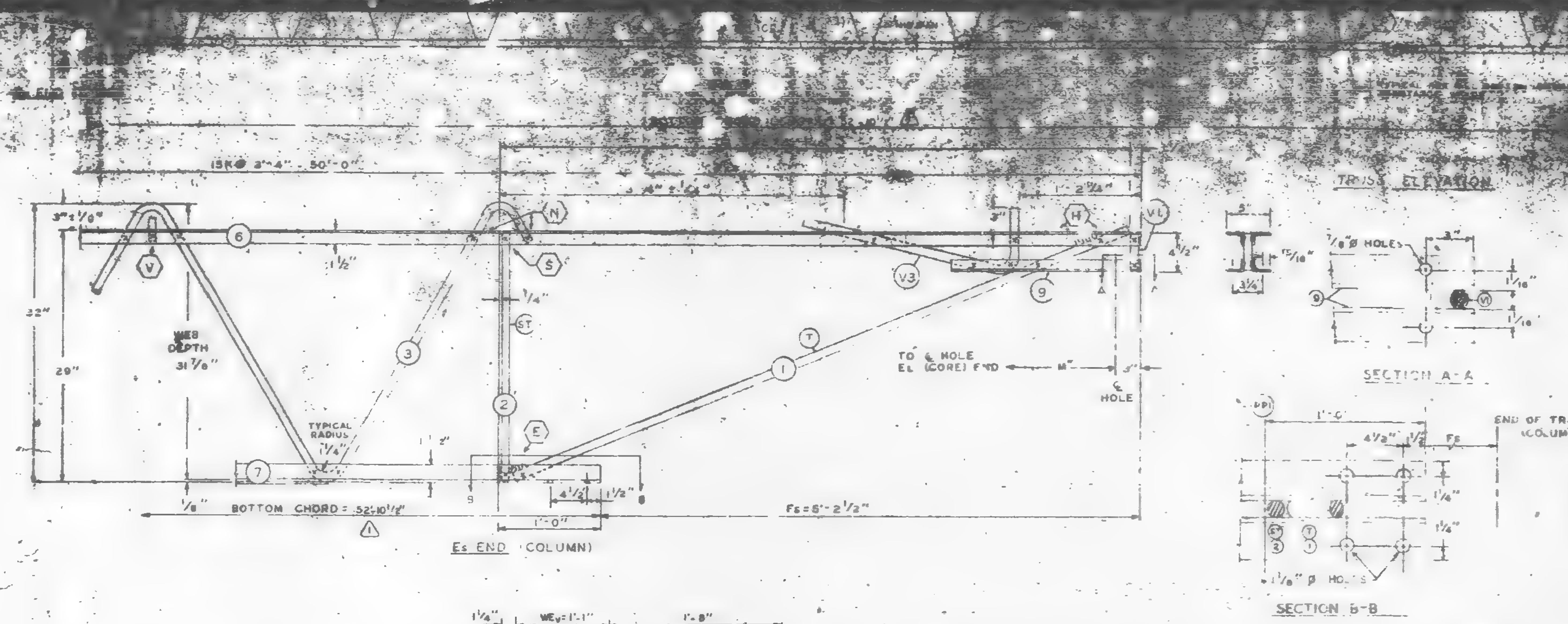
FOR THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T33 59'-0¾" OVERALL

WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

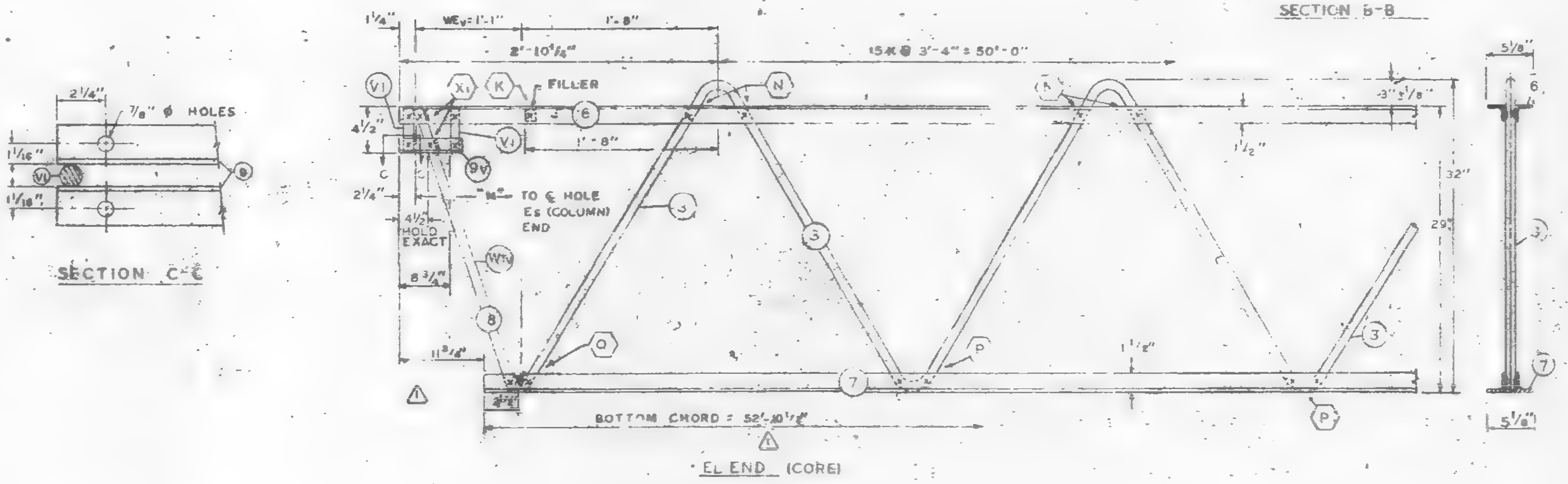
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-ABI-30	PLATE
APPROVED FOR FABRICATION FOR PONYA James White	DATE 3/19/69	DRAWN BY [illegible] DATE JAN 23, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY T.M.EMURA DATE JAN. 23, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY CARL WEBER		FABRICATION CONT. NO WTC 221	SHEET NO. ST 253



ALL PANEL POINTS RESISTANCE WELDED (x).
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST29

SEE SHEET ST2_5 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R21]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.



NO.	DATE	REVISION
3	8-21-69	AS NOTED
2	2-13-69	AS NOTED
1	1-31-69	AS NOTED

REF. DRWG.

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF W	FILLER MK	DIA	CONNECTION FILLER NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	13/16" ⌀ HOLES
C32T33-59075	6	A242	2"x1½"x.25"	59'-0¾"	7	[illegible]	2"x1½"x.25"	52'-10½"	3	A36	1.09	97'-0"	15½ x @ 3'-4" = 51'-8"	11	1.09	4	1.09	0'-3"	—	—	—	—	58'-7½"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLE MK	TYPE STEEL	CHORD SIZE	LENGTH	WF	DIAGONAL STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END V1 TYPE STEEL	DIA	LENGTH	V3 STEEL	DIA	LENGTH
C32T33-59075	9	A242	2"x1½"x.37"	2'-3"	6-1¼"	1	A242	1.14	6'-5"	2	A242	1.14	2'-4⅞"	A242	1.14	0'-4¾"	A242	1.14	[illegible]-9½"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLE MK	TYPE STEEL	CHORD SIZE	LENGTH	WEV	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK, V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	WEB "VCV" MK	TYPE STEEL	P.S.	DIA	LENGTH	WEB "WTV" MK	TYPE STEEL	P.S.	DIA	LENGTH
C32T33-59075	9V	A242	2"x1½"x.37"	0'-10"				—	—	—	—	—	—	A36	1.09	4⅜"	—	—	—	—	—	8	A36	1	1.09	2'-8¼"

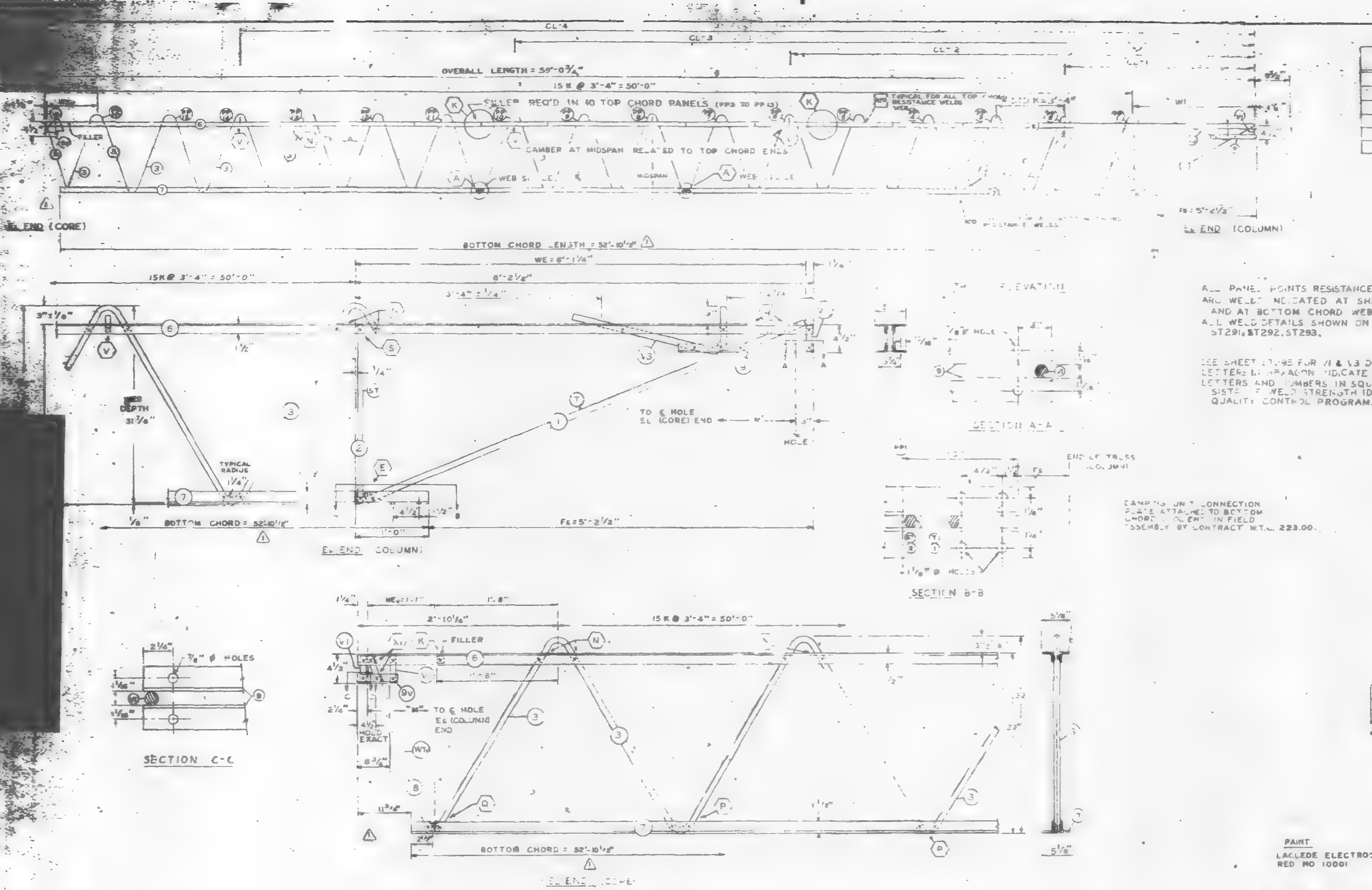
CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-8½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T33 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
APPROVED FOR FABRICATION FOR PONYA James White DATE 3/4/69
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
LACLEDE STEEL CO.
DETAILED BY CAR WEBER
DESIGN DRAWING NO. 7-A81-30
DRAWN BY DATE JAN 23, 1969
CHECKED BY T. MOURA DATE JAN 23, 1969
FABRICATION CONT. NO. W.T.C. 221
PLATE
IN CHARGE OF 400 DEV
SHEET NO



ALL PANEL POINTS RESISTANCE WELDED. ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R21]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD ... IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

FABRICATION REQUIREMENTS		
CAMBER AT MIDSPAN	1¾"	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	[illegible]	[illegible]
OVERALL LENGTH	59'-0¾"	[illegible]
WEB DEPTH	31 7/8"	[illegible]

NO.	DATE	REVISION
2	2-18-69	AS NOTED
1	1-31-69	AS NOTED

REF. DRWG.

7-AB-30	7-B-30
7-AB-52	4-AB-55
7-AB-46	7-B-39
7-AB-54	7-B-32
7-AB-53	7-B-27
7-AB-19	N-B-19

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "A"					FILLER		CONNECTION FILLER			... PLATE				"M" ½" HOLES	
NO.	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH		MK.	DIA.	MK.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH		
C32T33-58075	6	A242	2"x1½"x.25"	59'-0¾"	7	[illegible]	2"x1½"x.25"	52'-10½"	3	A36	1.09	87'-0"	15½"@3'-4"=51'-8"	11	1.09	4	1.09	0'-3"	—	—	—	—	58	½"

TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "S" STRUT				VERTICAL "ST" STRUT ⚠2				END STIFFENER MK. 2			MK. 3		
	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH
C32T33-58075	8	A242	2"x1½"x.37"	1'-10"	6'-1¼"	1	A242	1.14	6'-5"	2	A242	1.14	2'-4⅞"	A242	1.14	0'-4¾"	A2..		2'-9½"

TRUSS DESIGNATION	BEARING ANGLE				WEV	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER ⚠ MK. V1			WEB "WCV"					WEB "WTV" ⚠2				
	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH (2 REQ'D)	MK.	TYPE STEEL	PCS	DIA.	LENGTH	MK.	TYPE STEEL	PCS	DIA.	LENGTH
C32T33-58075	8V	A242	2"x1½"x.37"	0'-10"	-	-	-	-	-	—	—	—	—	A36	1.09	4⅞"	—	—	—	—	—	8	A36	1	1.09	2'-6¼"

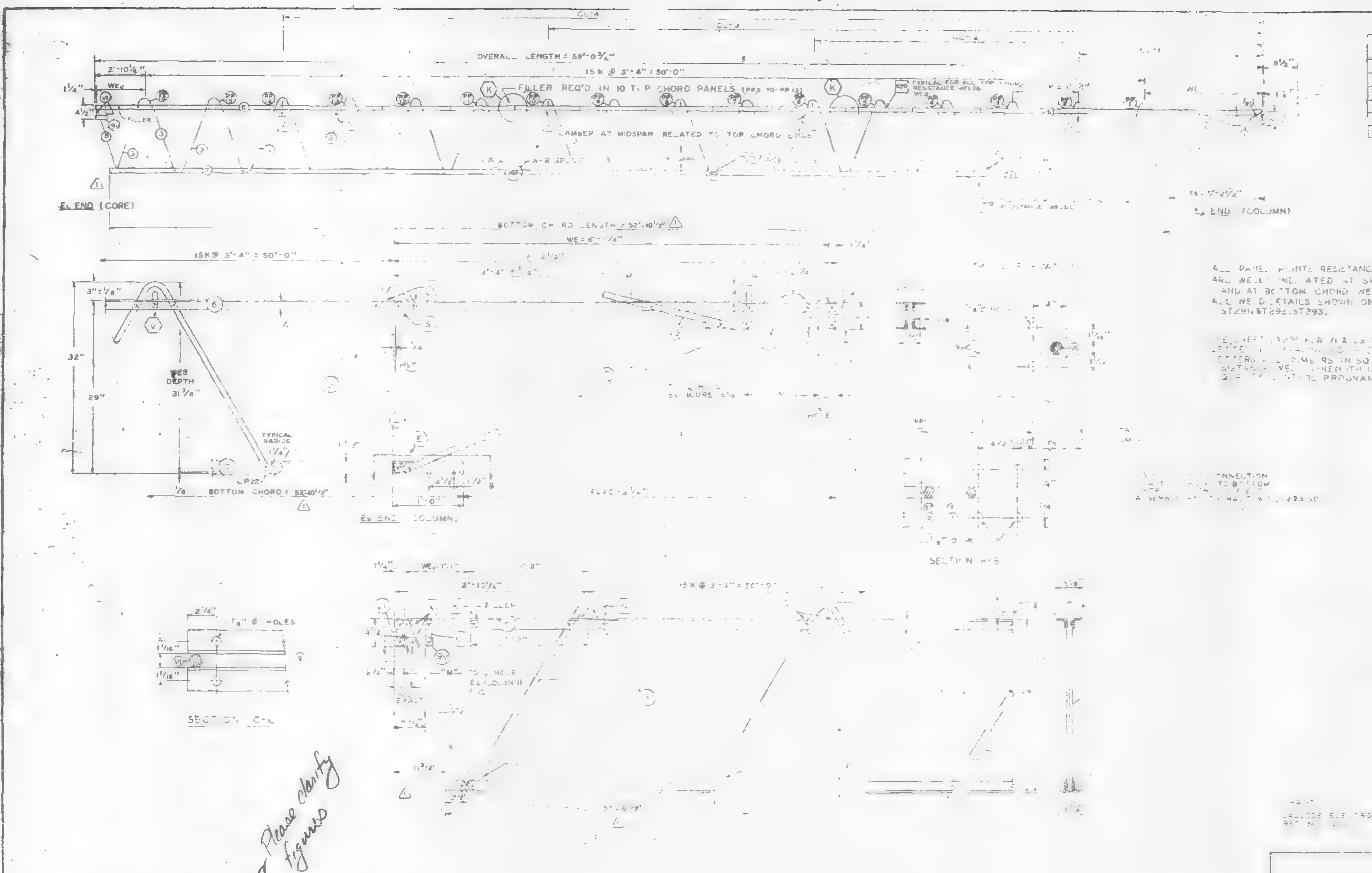
CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T33 — 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB-30
PLATE
APPROVED FOR FABRICATION BY [signature] FOR P.O.N.Y.A. DATE 2/24/69
DRAWN BY: [illegible] DATE JAN. 23, 1969
APPROVED FOR FABRICATION BY: FOR FABRICATOR DATE
CHECKED BY: [illegible] DATE JAN. 23, 1969
IN CHARGE OF [illegible]
DETAILED BY A. CARL [illegible]
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST 233



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 3/4"	± 1/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'	± 1/4"
OVERALL LENGTH	3/4"	± 3/8"
W.P. DEPTH	8"	±

ALL PANEL POINTS RESISTANCE WELD (A) ARE WELDED INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

... WELD DETAILS, i.e. (A) ... LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE ... PROGRAM, i.e. [nc1]

	DATE	REVISION	BY
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-ABI-30	
7-ABI-32	
7-ABI-34	
7-AB-35	
7-AB-33	
7-AB-31	

PAINT
LACLEDE ELECTROCOAT

TRUSS DESIGNATION										
C32T33-59075	6	A242	53'-10 1/2"	A36	1.09	8'-10"	51'-6"	1.09	4	1.09

COLUMN END	Es END	TRUSS DESIGNATION					
		C32T33-59075	9	A242	A36	1.09	1.14

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLE	WEV	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER	"WCV"	WEB "WTV"
		C32T33-59075	9 A242 2" x 1/2" x 25 0'-10"				A242 3 3/8"	8	6 1/4"

Please clarify figures

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

2/19/69 SK

STEEL TRUSS DETAILS
FOR
... NEW YORK AUTHORITY

FLOOR TRUSS C32T33 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY		
FABRICATED AT MADISON ILLINOIS	DESIGN DRAWING NO. 7-ABI-30	PLATE
APPROVED FOR FABRICATION BY ... FOR P.O.N.Y.A. DATE	DRAWN BY: [illegible] DATE JAN. 23, 1969	
APPROVED FOR FABRICATION BY ... FOR FABRICATOR DATE	CHECKED BY: T.M. CHURA DATE JAN. 23, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A. ... WEBER	FABRICATION CONT. NO. WTC 221	SHEET NO. ST 235

FABRICATION REQUIREMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1¾"	± [illegible]/8"
DESIGN DEPTH	2[illegible]	± 1/4"
PANEL "K"	[illegible]4"	± 1/4"
OVERALL LENGTH	[illegible]-0¾"	± 3 [illegible]"
[illegible] DEPTH	31 7/8"	± [illegible]

ALL PANEL POINTS RESISTANCE WELDED [illegible] ARE WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

[illegible] SHEET [illegible] FOR [illegible] DETAILS. [illegible] INDICATE WELD DETAILS, ie. (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [K21]

VOID

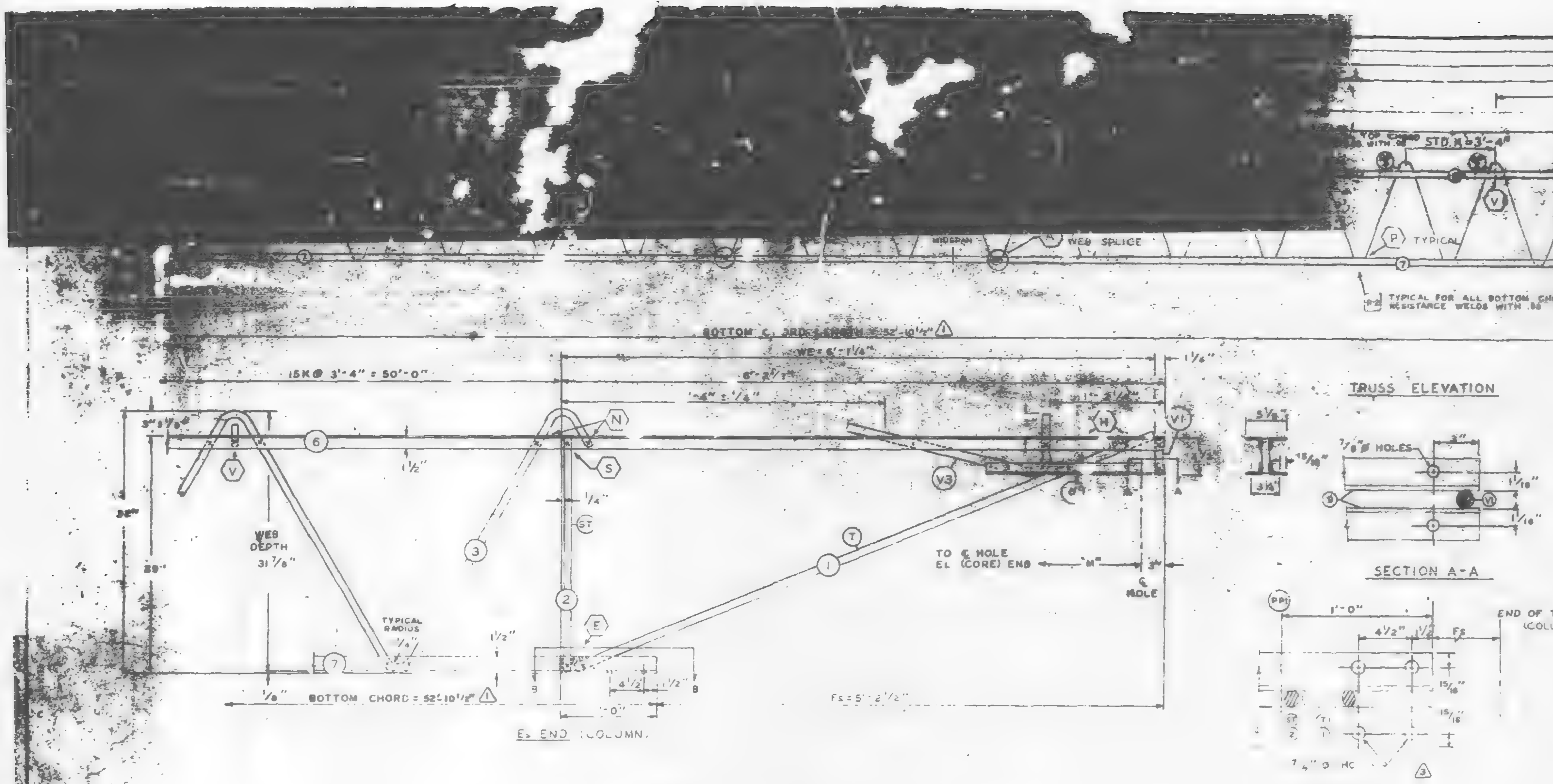
PAINT
LACLEDE ELECTROCOAT
RED NO 10001

STEEL TRUSS DETAILS
[illegible] WORLD TRADE CENTER – N.Y.C.
[illegible]
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T33 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY

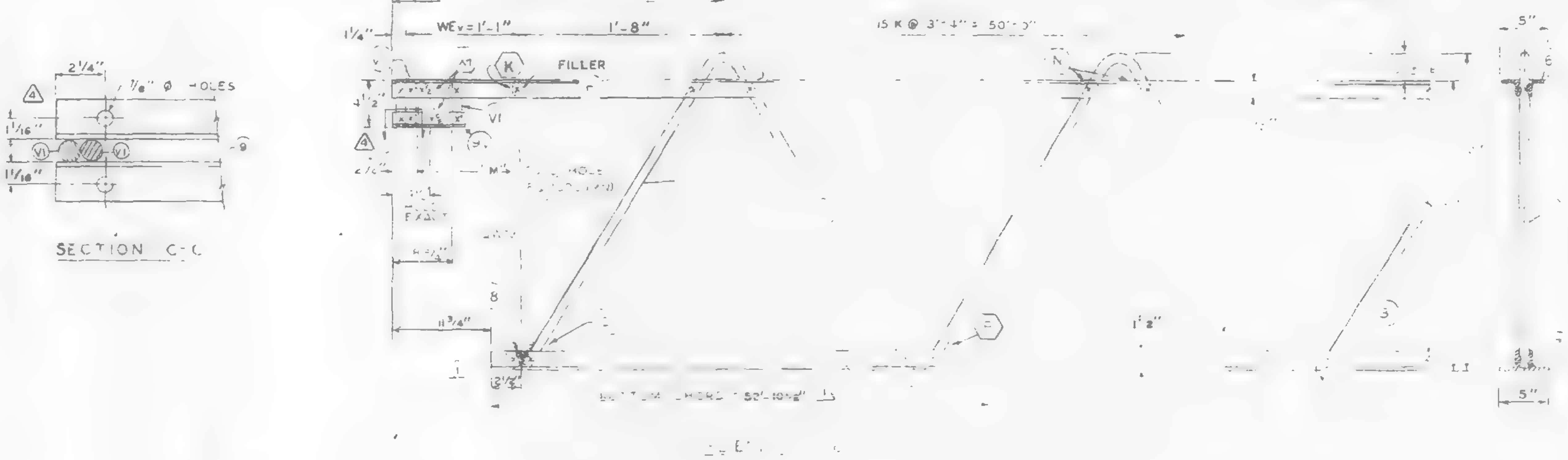
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-A81-30	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY: dec DATE JAN. 23, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY. T.M.CHUPA DATE JAN. 23, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A CARL WEBER		FABRICATION CONT. NO. WTC 221	SHEET NO ST 233



ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED BY SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, ST294. (4)

SEE SHEET ST 5 FOR VI & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [R-6]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.



No.	Date	Revision	By
4	3-3-69	END STIFFENER	D.G.C.
3	2-28-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-31	1-6-69
7-AB1-52	2-12-68
7-AB4-14	10-15-68
7-AB-54	1-6-69
7-AB1-53	11-22-68
7-AB1-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	MK	TYPE STEEL	SIZE													
C32T34-59075	6	A242	2" x 1 1/2" x .25	A242	2" x 1 1/2" x .25	52'-10 1/2"	3	A242	98	9'-0"	15 1/2" K @ 3'-4" = 51'-8"	11	96	4	98	3"

COLUMN END

Es END TRUSS DESIGNATION	MK	TYPE STEEL	CHORD SIZE			
C32T34-59075	9	A242	2" x 1 1/2" x .37	[illegible]	A242	1 1/4

CORE END

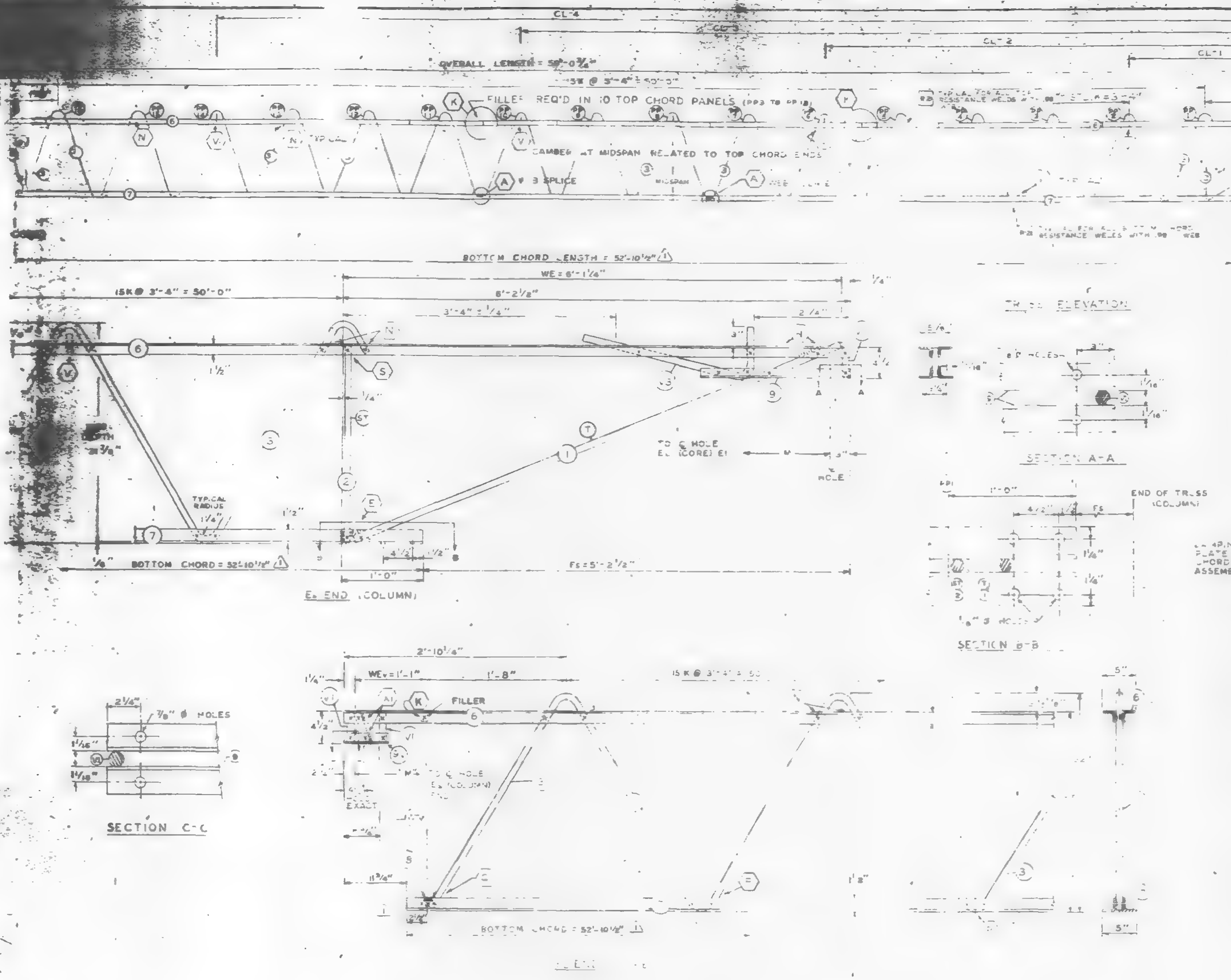
EL END TRUSS DESIGNATION	MK	BEARING ANGLE TYPE STEEL	CHORD SIZE	WEv	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER (4) MK. VI	WEB "V1"	WEB "V3"
C32T34-59075	9V	A242	2" x 1 1/2" x .37	10"	[illegible]	[illegible]	A242 98	8 A242	98

STEEL TRUSS DETAILS
WORLD TRADE CENTER – N.Y.C.
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T34 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-8

STEEL COMPANY

3/10/69	DESIGN DRAWING NO. 7-AB1-45	PLATE
	DRAWN BY Jcc DATE JAN 23, 1969	
R. FABRICA JR.	CHECKED BY T.M. CHURA DATE JAN 23, 1969	IN CHARGE OF PROD. DEV.
LACLEDE STEEL CO.	FABRICATION CONT. NO. 221	SHEET NO. ST 234



FABRICATION REQUIREMENTS		
CAMBER AT MIDSPAN	1"	± 3/8
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± [illegible]
OVERALL LENGTH	59'-0 3/4"	± 3/8"
WEB DEPTH	[illegible] 7/8	± 1/4

- ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6

BEARING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (E END) IN FIELD. ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION	BY
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.B.C.

REF. DRWG.

7-AB1-31	1-6-69
7-AB1-52	2-15-68
7-AB4-14	10-15-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT RED NO 10001

TRUSS DESIGNATION	MK	TYPE STEEL	TOP CHORD TWO ANGLES CHORD SIZE	LENGTH	TYPE STEEL	SIZE	LENGTH	[illegible]	TYPE STEEL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	LENGTH
[illegible]34-S8075	6	A242	2"x1 3/4"x 25	[illegible]	A242	2"x1 1/2"x 25	52'-10 1/2"	3	A242	98	97'-0"	15 1/2"K @ 3'-4" = 51'-8"	[illegible]	98	4	98	3"

TRUSS DESIGNATION	MK	TYPE STEEL	BEARING ANGLES CHORD SIZE	LENGTH	[illegible]
[illegible]34-S8075	9	A242	2"x1 1/2"x 37	[illegible]	6' [illegible] A242 [illegible] A242 114 [illegible]'-4 7/8" [illegible] A242 14 2'-9 3/4"

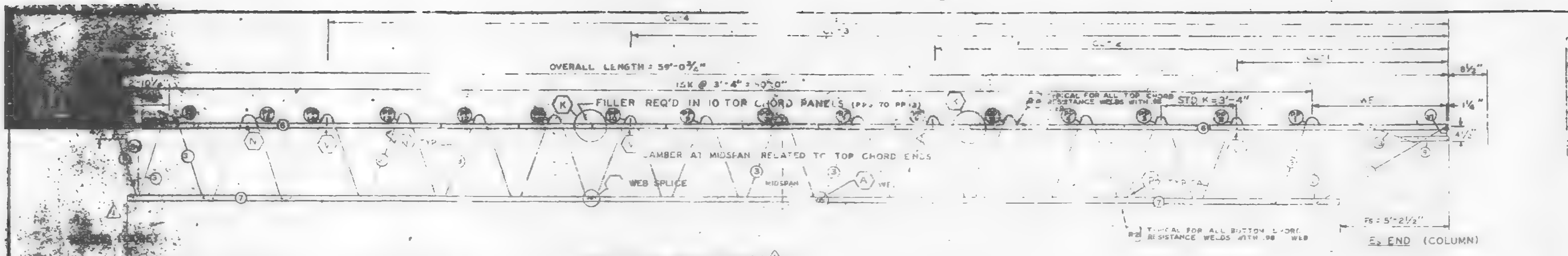
TRUSS DESIGNATION	MK	TYPE STEEL	BEARING ANGLE CHORD SIZE	LENGTH	WEv	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER MK V TYPE STEEL	[illegible]	LENGTH	WEB "WCV"	WEB "ATV" TYPE STEEL	[illegible]	[illegible]	LENGTH
[illegible]34-S8075	BV	A242	2"x1 1/2"x 37	10"	1'-1"	—	—	A242	58	4 3/8"	8	A242	1	98	2'-6 1/4"

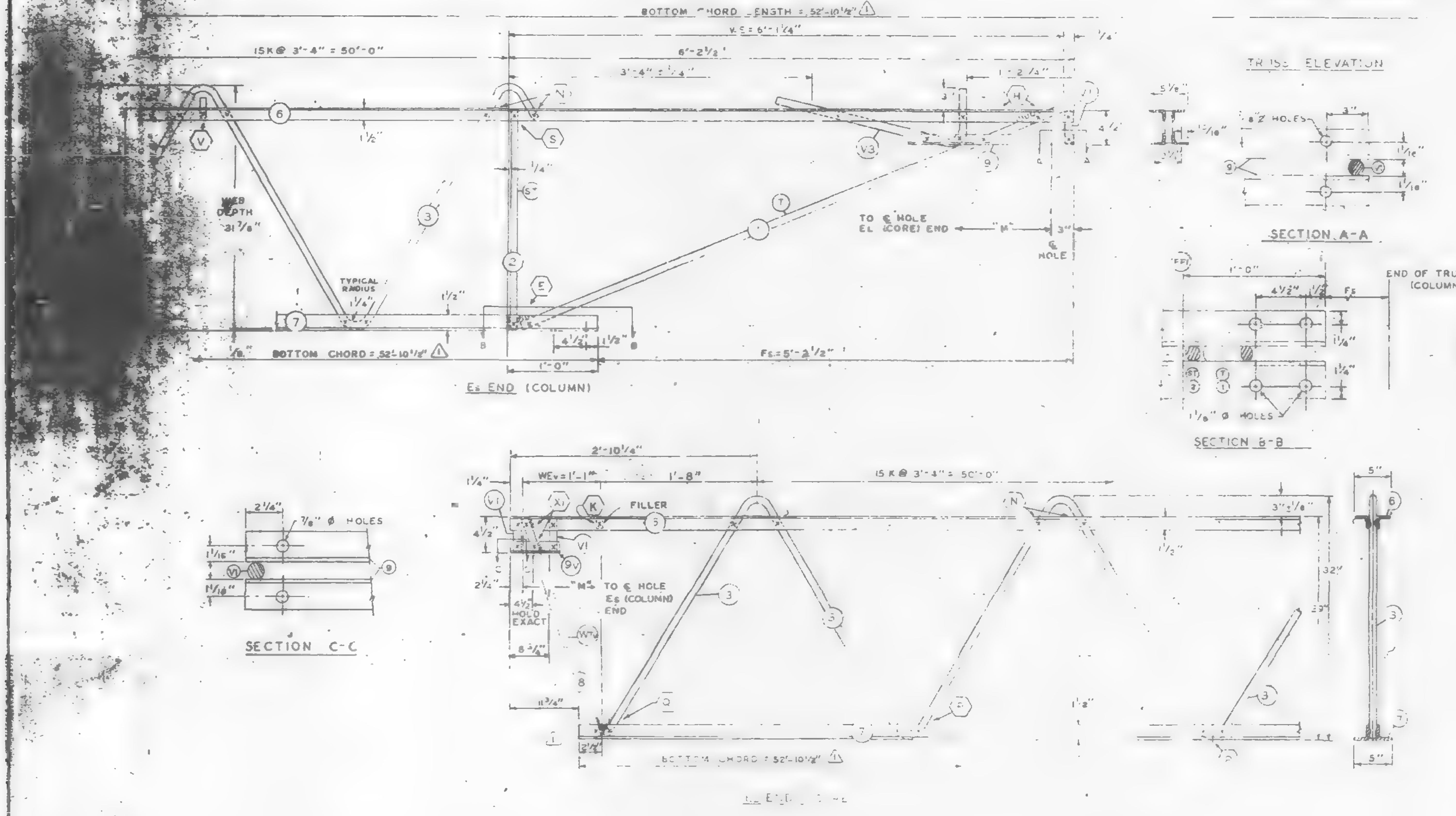
9'-6 1/2", 22'-0 1/2", 36'-[illegible], 49'-6 1/2", 52'-2 1/2"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER, - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T34 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-45
PLATE
APPROVED FOR FABRICATION [illegible] FOR P.O.N.Y.A. DATE 2/24/69
DRAWN BY: [illegible] DATE JAN. 23, 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE
CHECKED BY: T.M.C. DATE JAN 23, 1969
IN CHARGE OF PROD. [illegible]
DETAILED BY A CARL WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST 234





FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	± 3/8
DESIGN DEPTH	29"	± 1/4"
PANEL K"	3'-4"	- 1/[illegible]
OVERALL LENGTH	59'-	± 3/8"
WEB DEPTH	31 7/8"	± 1/4

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES (ammit)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

Parts of sheet do not print
Please clarify

NO	DATE	REVISION	BY
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-31	1-6-69
7-AB1-52	2-15-68
7-AB4-14	0-15-68
7-AB1-54	1-6-69
7-AB1-53	7-22-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD																
	MK	TYPE STEEL	CHORD SIZE	LENGTH	TYPE STEEL	SIZE	1				LENGTH						LENGTH				
C32T34-59075	6	A242	2"x1½"x.25	[illegible]	A242	2"x1½"x.25	52'-10½"	3	A242	98	97'-0"	15½"K@3'-4"=51'-8"	10	98	4	98	3"		-		-

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLE												
		MK	TYPE STEEL	CHORD SIZE						DIA	LENGTH			
	C32T34-59075	9	A242	2"x1½"x.25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CORE END

TRUSS DESIGNATION	BEARING ANGLE				WEv	DOUBLE STRUT				DOUBLE STRUT			END STIFFENER MK. VI			WEB "WEv"				WEB "WTv"			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH AS REQ'D	MK	TYPE STEEL	DIA	TYPE STEEL	DIA	LENGTH AS REQ'D	MK	TYPE STEEL		LENGTH	MK	TYPE STEEL		LENGTH
C32T34-59075	9V	A242	2"x1½"x.31	10"	1'-1"					—	—	—	A242	1.14	4⅜"	—	—	—	—	8	A242	1.14	2'-0¼"

[illegible] DIMENSIONS FOR TRUSS FAB
LOCATION OF TRANS. TRUSS

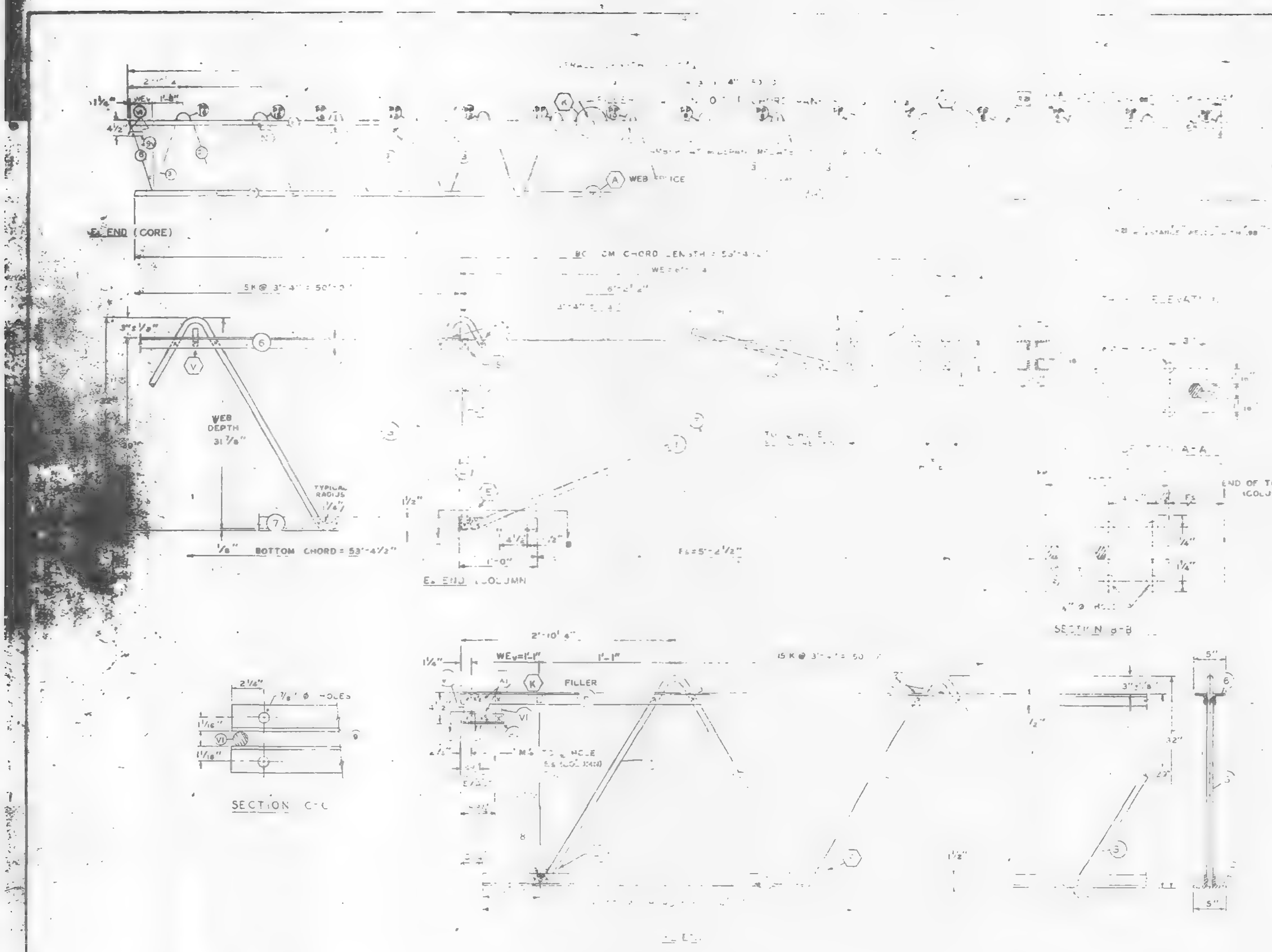
9'-8¼"	22'-10 2"	36'-2½"	49'-6½"	5'-2½"

2/19/69 SE

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T34 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY [illegible] STEEL COMPANY		
FABRICATED AT [illegible]	DESIGN DRAWING NO. 7-AB1-46	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE	DRAWN BY: dee DATE JAN. 23, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR DATE	CHECKED BY: T.M.CHURA DATE JAN. 23, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A. CARL WEBER	FABRICATION CONT. NO. WTC 221	SHEET NO. ST234



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	1 15/16"	- 3/8"
DESIGN DEPTH		± 1/4"
PANEL "K"	4"	± 1/4"
OVERALL LENGTH	59'-0 3/4"	± 1/8"
DEPTH	31 7/8"	± 1/4

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e., R-6

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION	BY

VOID

REF. DRWG.

7-AB1-31	1-6-69
7-AB1-52	[illegible]
7-AB4-14	[illegible]
7-AB1-34	1-6-69
7-AB1-53	[illegible]-22-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT RED NO 10001

TRUSS DESIGNATION														
C32T34-59075	6	[illegible]	[illegible] 25	A242	2"x1 1/2"x 25	53'-4 1/2"	3	A242	98	97'-0"	15 1/2"K@3'-4" = 51'-8"	[illegible]	98	4	98	3"

COLUMN END — EL END

TRUSS DESIGNATION			
C32T34-59075	9	A242	[illegible]

CORE END — EL END

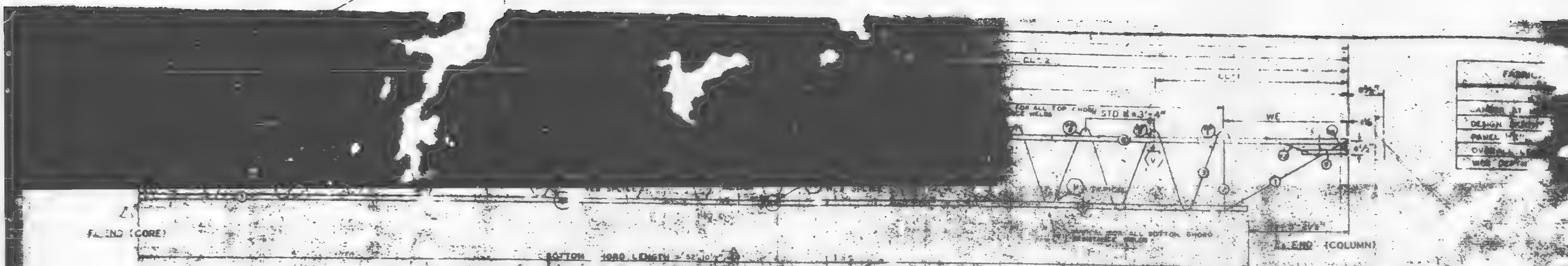
TRUSS DESIGNATION	BEARING ANGLE		BLE STRUT	BLE STRUT	STIFFENER	
C32T34-59075	9V A242 [illegible]	[illegible]		A242 14	[illegible]	A242 14 [illegible]

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T34 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

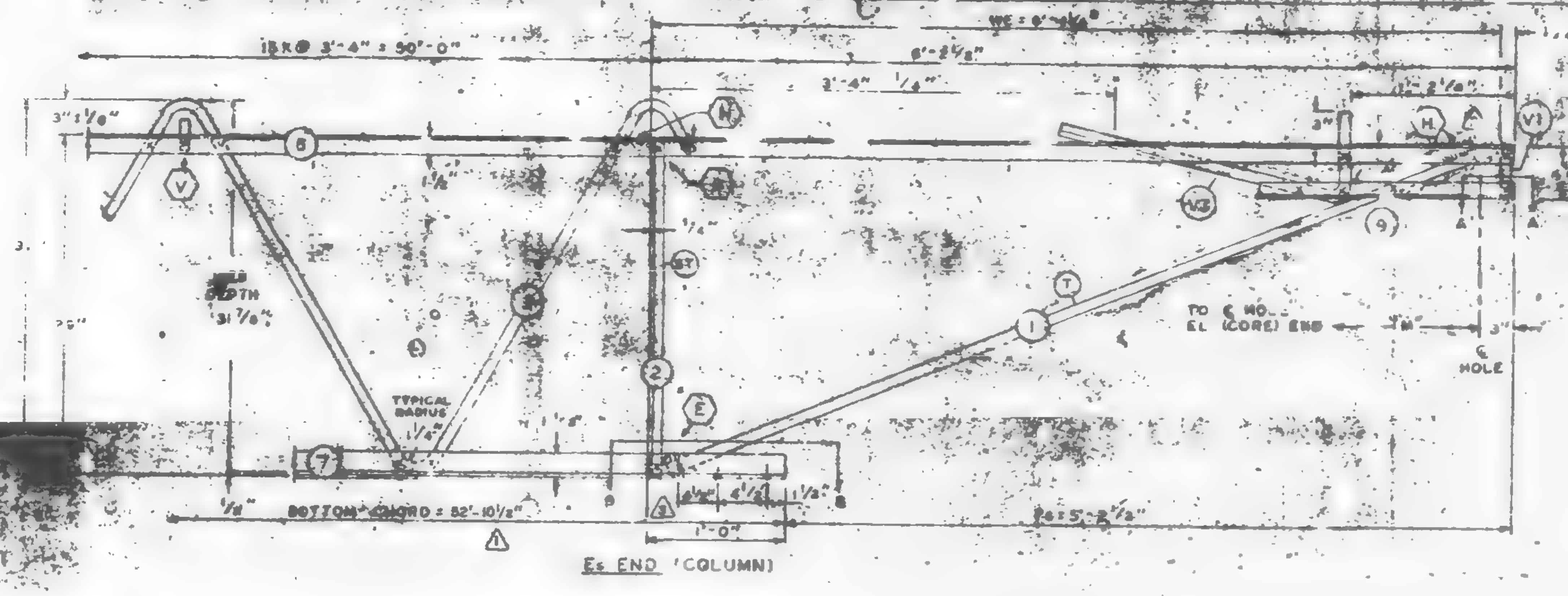
FABRICATED BY LACLEDE STEEL COMPANY

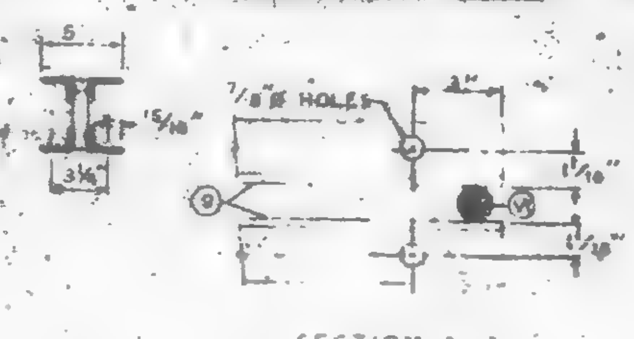
DESIGN DRAWING NO 7-AB1-45
DRAWN BY Jec DATE JAN 23, 1969
CHECKED BY T M OKURA DATE JAN 23, 1969
IN CHARGE OF PROD DEV
DETAILED BY CARL WEBER
FABRICATION CONT NO W.T.C. 221
SHEET NO ST234



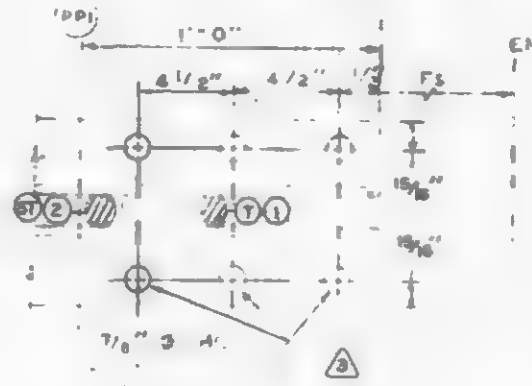
ALL PANEL POINTS RESISTANCE WELDED.
ARC WELDS INDICATED AT SHADED [illegible] AT BOTTOM CHORD, WEB SPLICES [illegible]
ALL WELD DETAILS SHOWN ON SHEETS ST291-ST292 [illegible] ST293.

SEE SHEET ST 295 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS [illegible]
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM.



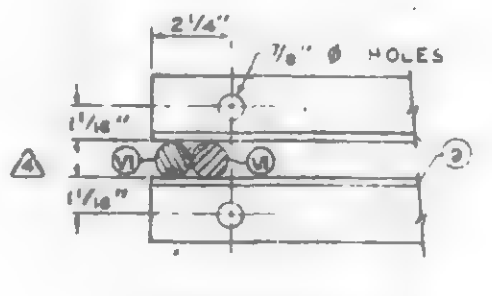


SECTION A-A

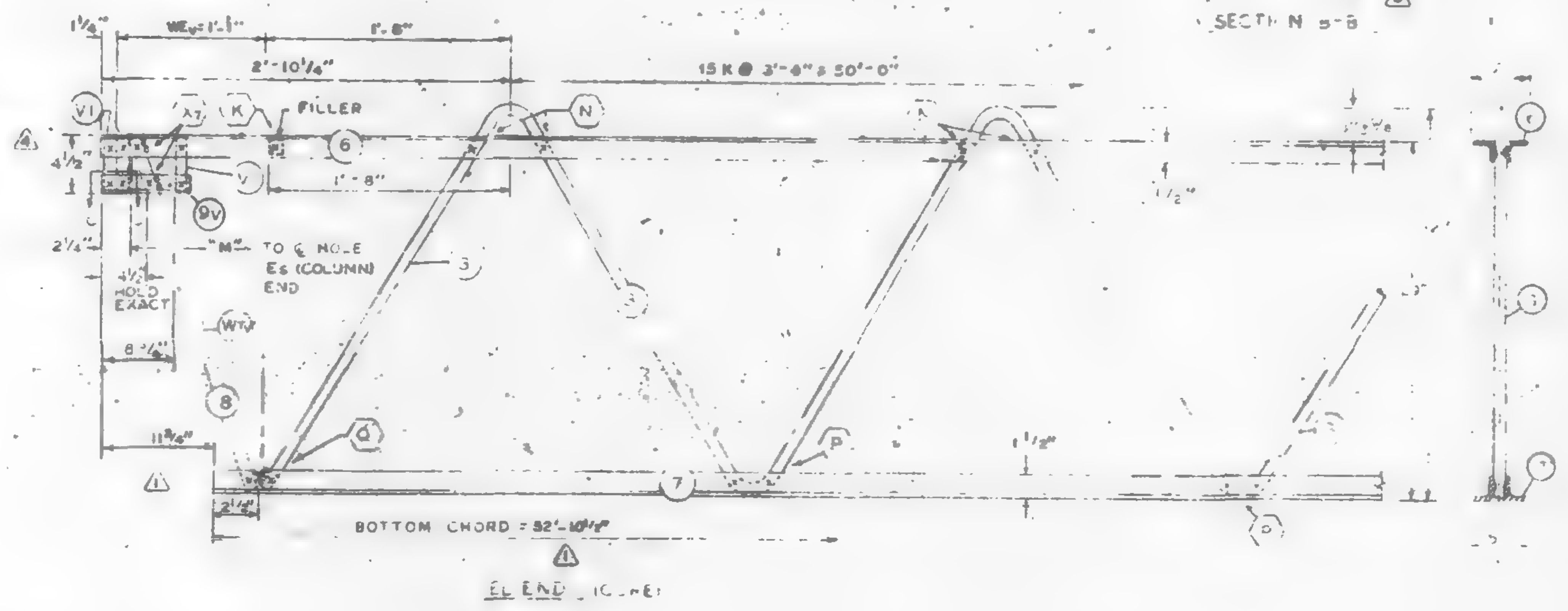


SECTION B-B

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD [illegible] IN FIELD [illegible] ASSEMBLY BY CONTRACT W.T.C. 223.00.



SECTION C-C



EL END (CORE)

4	3-3-69	END STIFFENER	[illegible]
3	2-28-69	AS NOTED	[illegible]
2	2-18-69	AS NOTED	[illegible]
1	1-31-69	AS NOTED	[illegible]
	DATE	REVISION	BY

REF DRWG.

7-481-48	[illegible]
7-481-52	[illegible]
7-481-54	[illegible]
7-481-56	[illegible]
7-481-58	[illegible]
7-481-78	[illegible]

PAINT
LACLEDE ELECTROCOAT RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					[illegible]				[illegible] FILLER	[illegible] PLATE				1/4" Ø HOLES
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	[illegible]	MK	DIA	[illegible]	DIA	LENGTH	MK	TYPE STEEL	[illegible]	LENGTH	
C32T35-59075	6	A242	2"x1 1/2"x.25"	59'-0 3/4"	7	A242	2"x1 1/2"x.25"	52'-10 1/2"	[illegible]	A242	.98	97'-0"	15 1/2 K @ 3'-4" = 51'-8"	11	.98	4	.98	3'-3"	—	—	—	—	58'-[illegible]

COLUMN END	Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	[illegible] STRUT				VERTICAL "ST" STRUT				[illegible] FILLER					
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK. 7 TYPE STEEL	DIA	LENGTH	MK. V3 [illegible]	DIA	LENGTH
		C32T35 59075	9	A242	2"x1 1/2"x.37"	[illegible]	6'-1 1/4"	[illegible]	A242	.98	6'-4"	[illegible]	A242	.98	2'-4 7/8"	A242	.98	[illegible]	A[illegible]		2'-9 1/2"

CORE END	EL END	TRUSS DESIGNATION	BEARING ANGLE				WEV	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER (4) MK. V1			WEB "WCV"					WEB "WTV"				
			MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH 3 REQ'D	MK	TYPE STEEL	CS	[illegible]	LENGTH	MK	TYPE STEEL	[illegible]	DIA	LENGTH
		C32T35-59075	9V	A242	2"x1 1/2"x.37"	0'-10"	1'-1"	—				—	—	—	—	A242	.98	4 3/8"	—	—	—	—	—	8	A242	[illegible]	.98	2'-8 1/4"

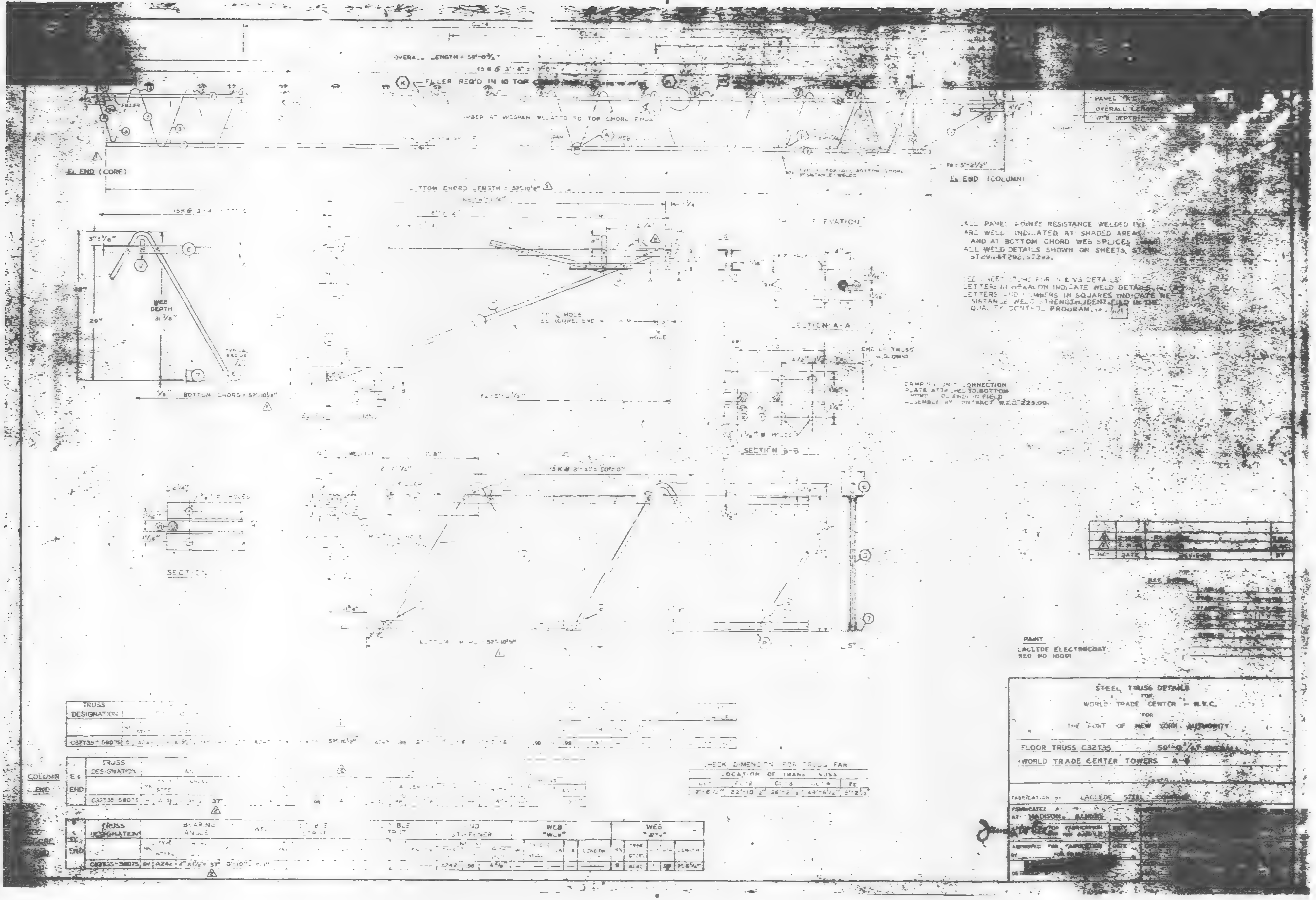
CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS [illegible]				
CL-1	CL-2	CL-3	CL-4	Es
0'-8 1/2"	22'-10 1/2"	38'-2 1/4"	49'-6 [illegible]"	5'-2 1/2"

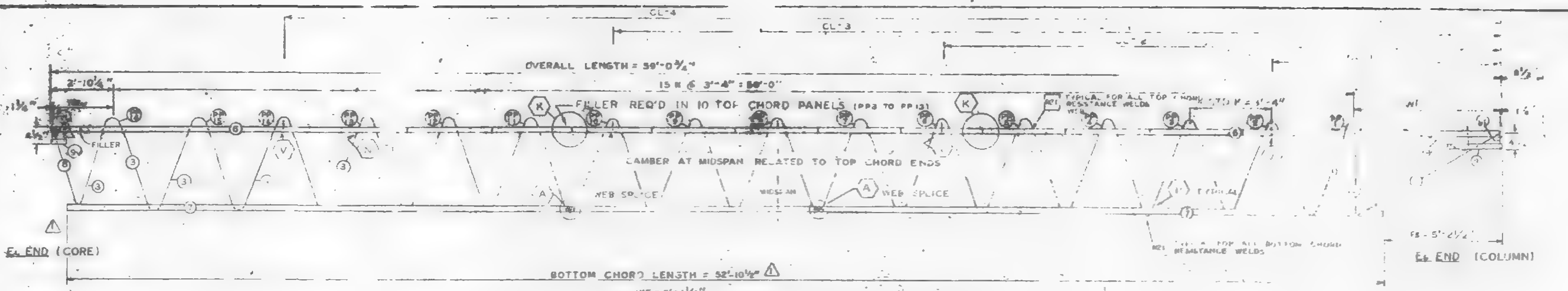
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER — N.Y.C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T35 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

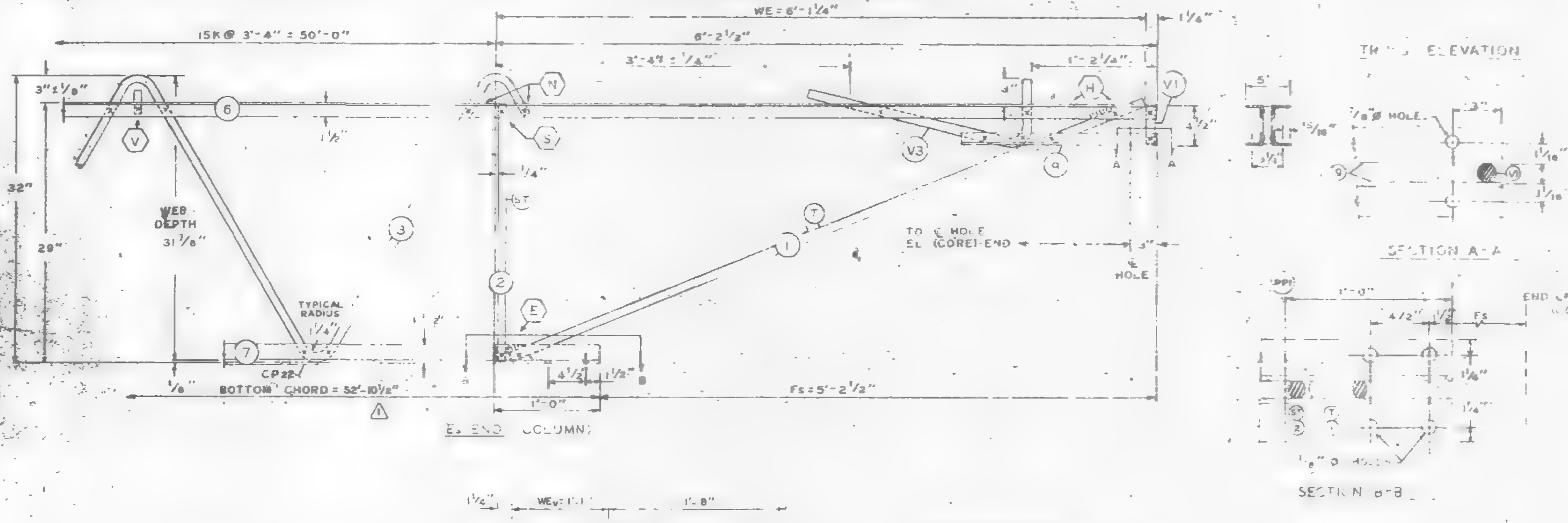
[illegible] BY [illegible] STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
[illegible] FOR FABRICATION FOR P.N.Y.A. DATE 2/13/69 — James White
[illegible] FOR FABRICATION DATE BY [illegible] FOR FABRICATION
[illegible]
DESIGN DRAWING № 7-481-42
DRAWN BY [illegible] DATE JAN 22, 1969
CHECKED BY T.M. CHURA DATE JAN 22, 1969
FABRICATION CONT NO A.T.C. 221
PLATE
IN CHARGE OF PROD DEV.
SHEET NO ST 235



OVERALL LENGTH = 59'-0 3/4"
FILLER REQ'D IN 10 TOP CHORD PANELS
CAMBER AT MIDSPAN RELATED TO TOP CHORD ENDS
℄ END (CORE)
℄ END (COLUMN)
BOTTOM CHORD LENGTH = 52'-10 1/2"
ELEVATION
WEB DEPTH 31 7/8"
BOTTOM CHORD = 52'-10 1/2"
SECTION A-A
SECTION B-B
SECTION
15K @ 3'-4" = 50'-0"
ALL PANEL POINTS RESISTANCE WELDED
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS
ST29, ST292, ST293.
LETTERS AND NUMBERS IN SQUARES INDICATE RE-
SISTANCE WELD STRENGTH IDENTIFIED IN THE
QUALITY CONTROL PROGRAM.
DAMPING UNIT CONNECTION
PLATE ATTACHED TO BOTTOM
CHORD ... FIELD
ASSEMBLY BY CONTRACT W.T.C. 223.00.
PAINT
LACLEDE ELECTROCOAT
RED NO 10001
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER
FOR
THE PORT OF NEW YORK
FLOOR TRUSS C32T35
WORLD TRADE CENTER TOWERS
FABRICATION BY LACLEDE STEEL
CHECK DIMENSION FOR TRUSS FAB
LOCATION OF TRANS TRUSS
0'-6 1/2" 22'-10 1/2" 36'-2 1/2" 49'-6 1/2" 51'-2 1/2"
TRUSS DESIGNATION
C32T35-59075
COLUMN END
CORE END



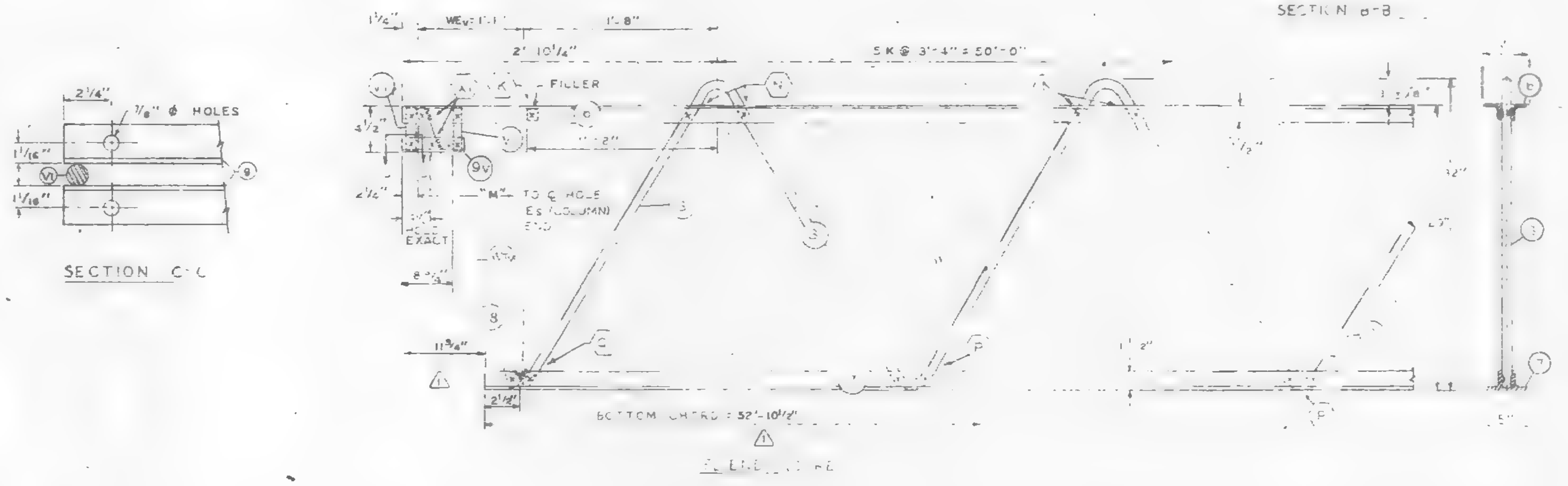
FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	¾"	± [illegible]
DESIGN DEPTH	29"	± 1/[illegible]
PANEL "K"	3'	± [illegible]
OVERALL LENGTH	5[illegible] ¾"	± 3/8
WEB DEPTH	31 [illegible]/8"	± 1/[illegible]



ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST[illegible] FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [kc1]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD [illegible] IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.



Parts of sheet do not print - Please clarify

No.	DATE	REVISION	BY
1	1-31-69	AS NOTED	G.D.C.

REF DRWG.

7-A81-48	1-6-69
7-A81-52	2-15-68
7-A84-14	1-5-68
7-A81-54	1-6-69
7-A81-53	7-22-68
7-A83-76	11-26-68

PAINT
LACLEDE ELECTROCOAT RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "A"											PLATE				14" ⅞ HOLES
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	[illegible]	LENGTH	[illegible]	[illegible]	DIA	[illegible]	[illegible]	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	
C32T35-59075	6	A242	2"x1½"x.25"	59'-0¾"	7	A242	2"x1½"x.25"	52'-10½"	[illegible]	A242	.98	97'-0"	15½"x@3'-4"=51'-8"	1	.98	4	.98	0'-3"	-			- -	58'-7½"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES				WE	[illegible] STRUT				VERTICAL "ST" STRUT				END STIFFENER					
															MK. V1			MK. V3		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
END	C32T35-59075	9	A242	2"x1½"x.25	1'-10"	6'-1¼"	1	A242	.98	6'-5"	2	A242	.98	2'-4⅞"	A242	.98	0'-4⅜"	A242	.98	2'-9½"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-8½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

TRUSS DESIGNATION	BEARING ANGLE				WEv	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER MK. V1			WEB "WCV"					WEB "WTV"				
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH (2 REQ'D)	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
C32T35-59075	9V	A242	2"x1½"x.25	0'-10"	1'-1"	-	—	—	—	—	—	—	—	A242	.98	4⅜"	—	—	—	—	—	8	A242	1	.98	2'-6⅛"

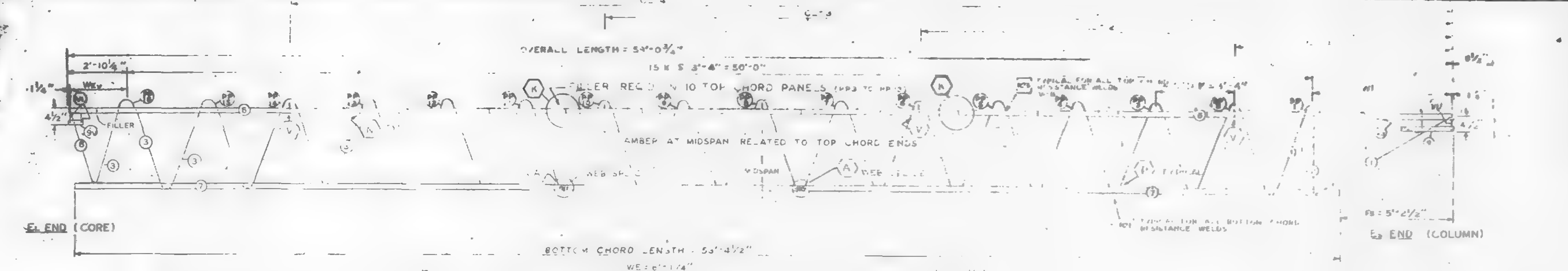
2/19/69 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

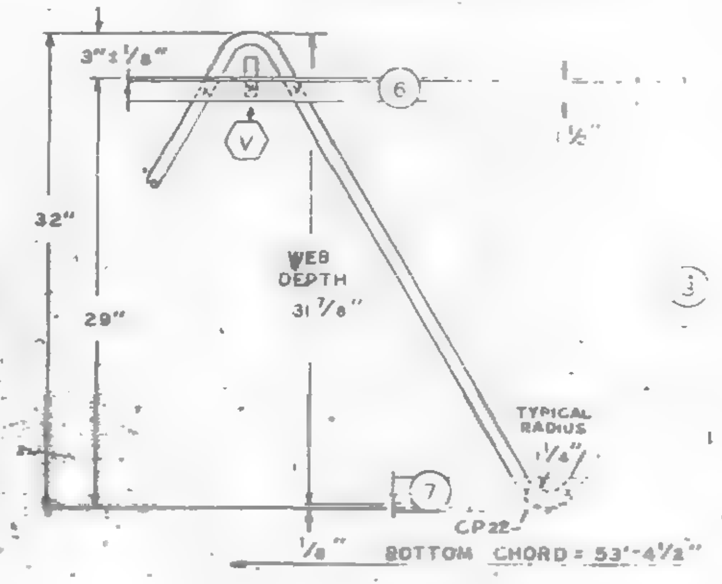
FLOOR TRUSS C32T35 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

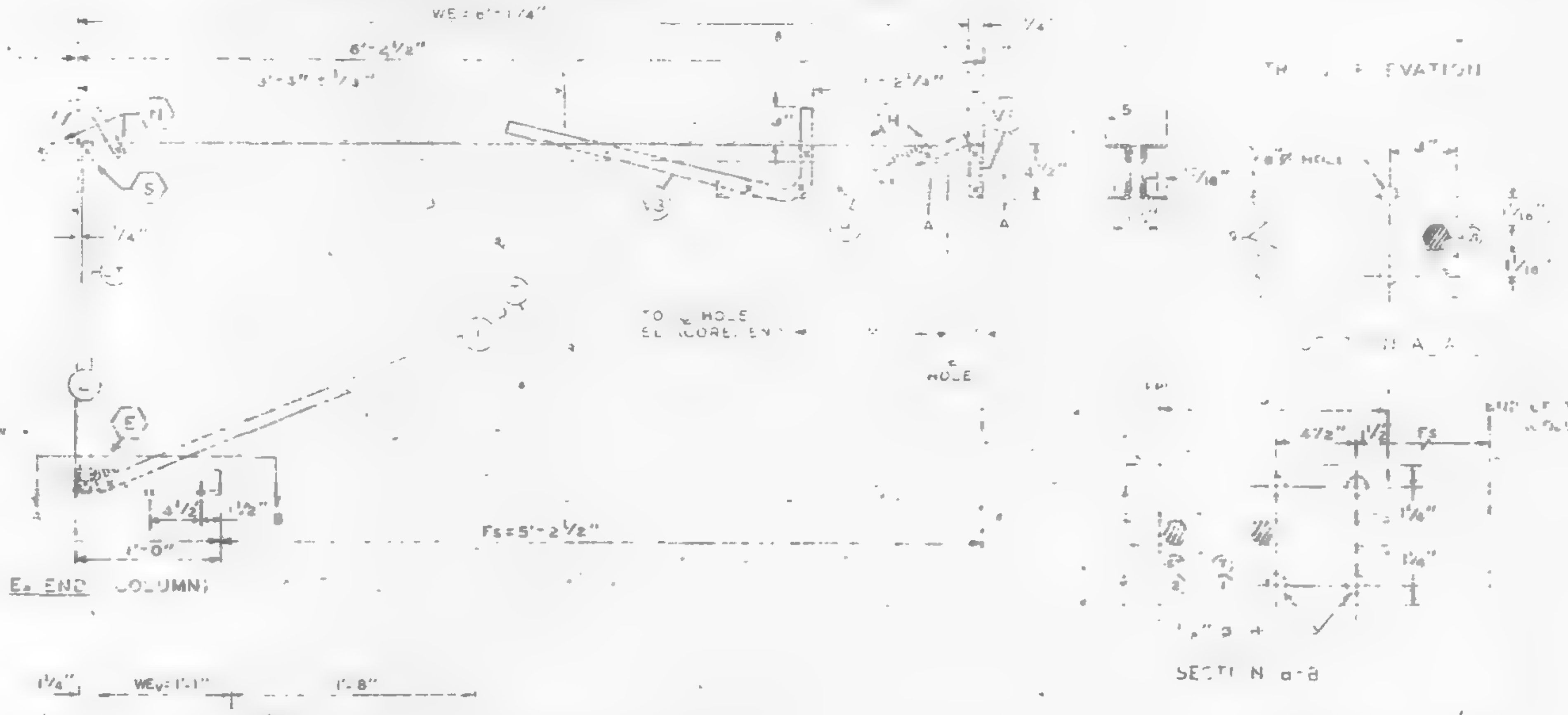
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-A81-48	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE JAN. 22, 1969	
APPROVED FOR FABRICATION BY FOR FABRICATOR	DATE	CHECKED BY: T.N.CHURA DATE JAN. 22, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY. A CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 235



FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	¾"	± 3/8"
DESIGN DEPTH	29	± 3/4"
PANEL "K"	–	± 1/4"
OVERALL LENGTH	59'-0¾"	± 3/[illegible]
WEB DEPTH	31 7/8"	± 1/4

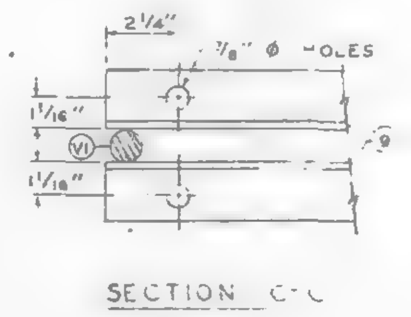




ALL PANEL POINTS RESISTANCE WELDED AT ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES. ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293.

SEE SHEET ST295 FOR V1 & V3 DETAILS. LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A). LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [Rc1]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD [illegible] IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.



N.	DATE	REVISION	BY

REF DRWG.

7-ABI-48	1-6-69
7-ABI-52	2-15-69
7-AB4-14	1-3-68
7-ABI-34	1-6-69
7-ABI-53	7-24-68
7-AB3-10	11-26-68

VOID

PAINT
LACLEDE ELECTROCOAT RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				[illegible]				MAIN WEB "A"					[illegible]		CONNECTION FILLER			[illegible]				% HOLES
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF P	[illegible]	DIA	NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	
C32T35 - 59075	6	A242	2"x1½"x.25"	59'-0¾"	[illegible]	A242	2"x1½"x.25"	53'-4½"	3	A242	.98	97'-0"	15½ n@3'-4" = 51'-8"	11	.98	4	.98	0'-3"	—	—	—	—	58'-7½"

Fs END	TRUSS DESIGNATION	BEARING ANGLES				WE[illegible]	[illegible]				"ST" STRUT				END STIFFENER MK V1			MK V3		
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH
	C32T35 59075	9	A242	2"x1½"x.25	1'-10"	6'-1¼"	1	A242	.98	6'-5"	2	A242	.98	3'-4⅞"	A242	.98	0'-4⅜"	A	.98	2'-9½"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

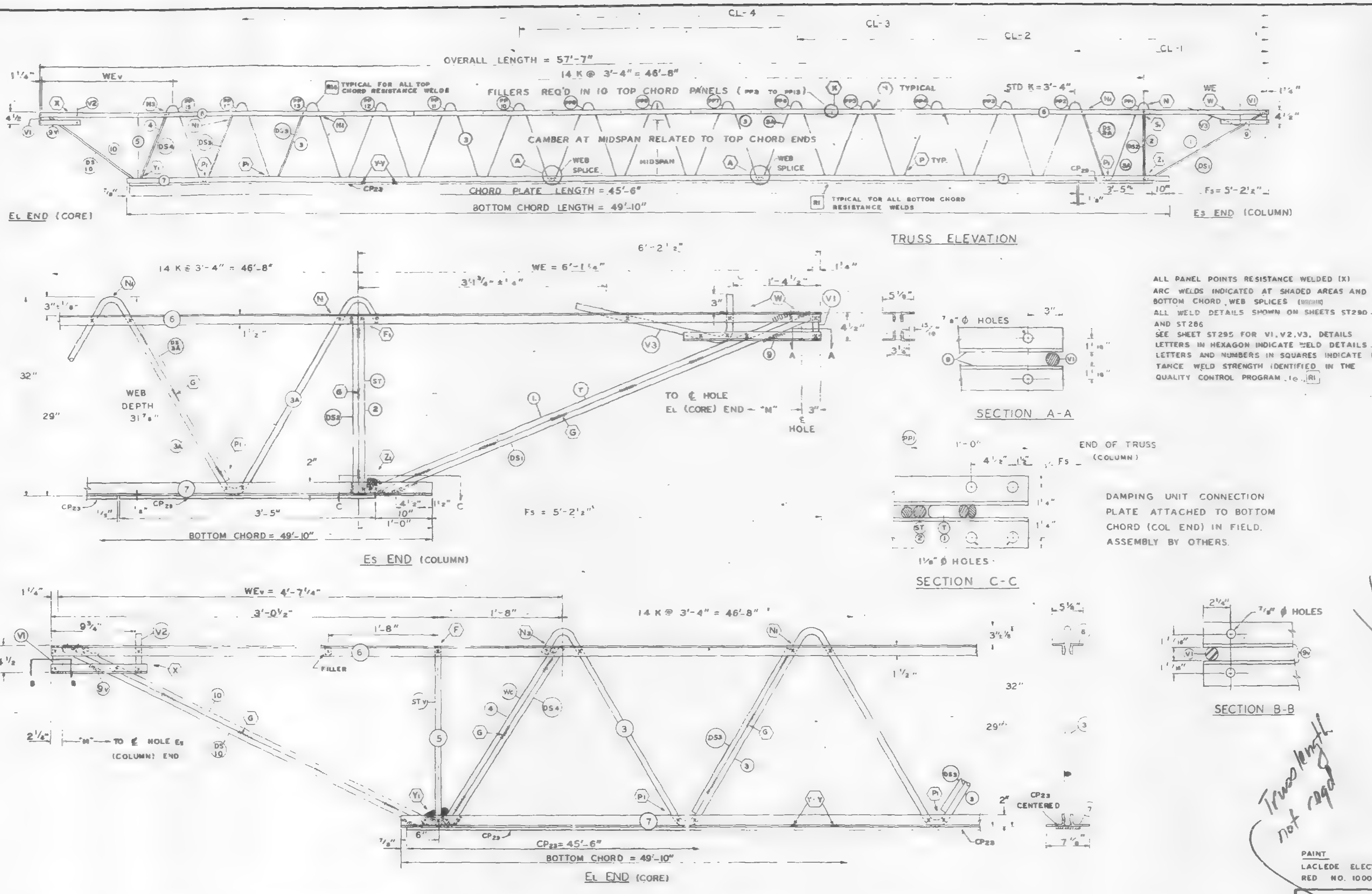
℄ END	TRUSS DESIGNATION	BEARING ANGLE				WEB	DOUBLE STRUT				DOUBLE STRUT				END STIFFENER MK V1			WEB "WCV"					WEB "WTV"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH
	C32T35 - 59075	9V	A242	2"x1½"x.25	0'-10"	1'-1"	—	—	—	—	—	—	—	—	A242	.98	4⅜"	—	—	—	—	—	8	A242	1	.98	2'-8¼"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T35 — 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO. 7-ABI-48	PLATE
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE JAN. 22, 1969	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY: T.H. CHUBB DATE JAN. 22, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A CARL WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 235



FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD, WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e. (R1)

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.

SKILLING · HELLE · CHRISTIANSEN · ROBERTSON
Structural & Civil Engineers

6/4/69 – 3K

V81D

NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-32	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

Truss length not reqd

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	DIA.	"M" C/C HOLES	CONNECTION FILLERS NO	DIA.	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T36P 577	6	A242	2"x1 1/2"x 31"	57'-7"	7	A36	3"x 2" x 37	49'-10"	3 3A	A242 A242	1.14 1.14	53'-4 3/4" 34'-6 1/2"	9 1/2 K @ 3'-4" = 29'-4" 5 1/2 K @ 3'-4" = 18'-4"	11	1.14	57'-1 3/4"	—	—	—	CP 23	A36	4 1/2"x .39	45'-6"	DS2	A242	.75	2'-4 7/8"	CP 29	A36	4 1/2"x .39"	3'-5"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V3 TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH.
C32T36P-577	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS 1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/-	5'-2 1/2"

DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
DS 3A	A242	.75	2'-6 3/4"

CORE END

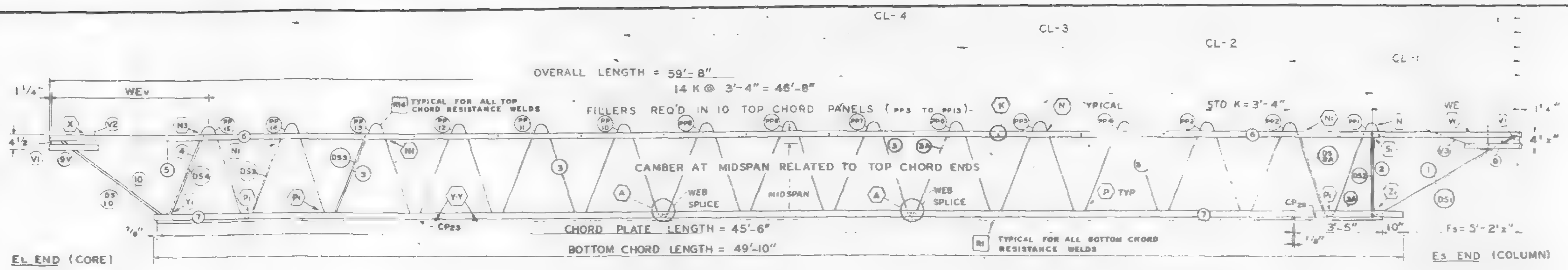
EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V6 TYPE STEEL	DIA.	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(62) (PEOD) DOUBLE STRUT MK	STEEL	DIA	LENGTH
C32T36P-577	9	A242	2"x1 1/2"x.37	11 3/4"	4'-7 1/4"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"				4	A242	1	1.14	2'-	DS 4	A242	.92	2'-9 1/2"	DS 10	A242	.75	3'-7"	DS 3	A242	.92	2'-6 3/4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T36P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

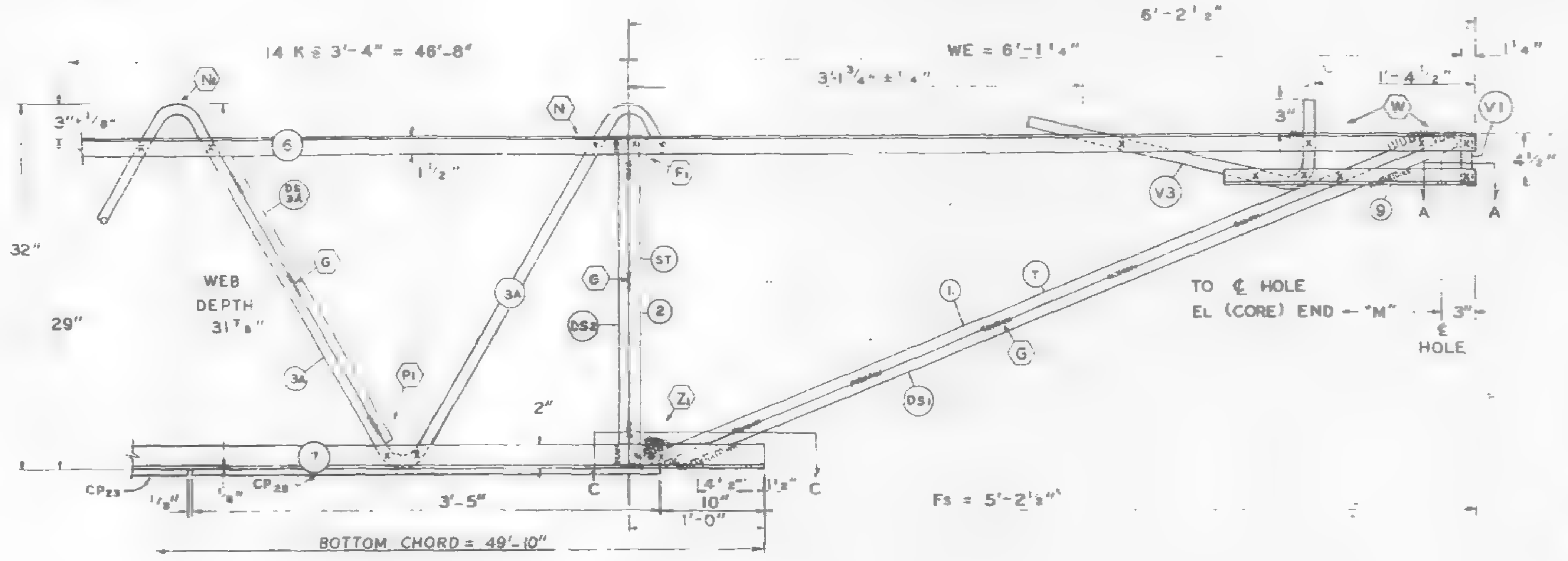
FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-32 PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A. DATE	DRAWN BY: [illegible] DATE: MAY 6, 1969
APPROVED FOR FABRICATION BY: ______ FOR FABRICATOR DATE.	CHECKED BY: [illegible] IN CHARGE OF PROD. DEV. DATE: MAY 6, 1969
DETAILED [illegible]	FABRICATION CONT. W.T.C. 221 SHEET NO. ST236P



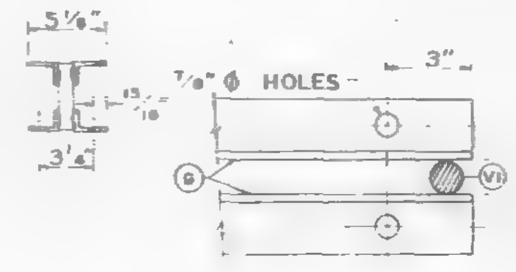
TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

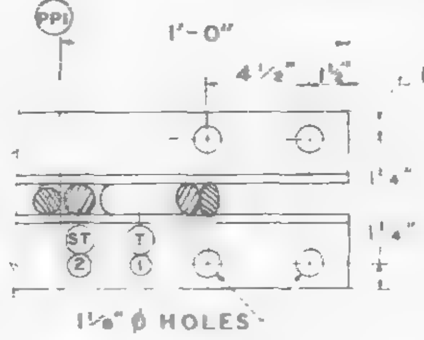


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1]

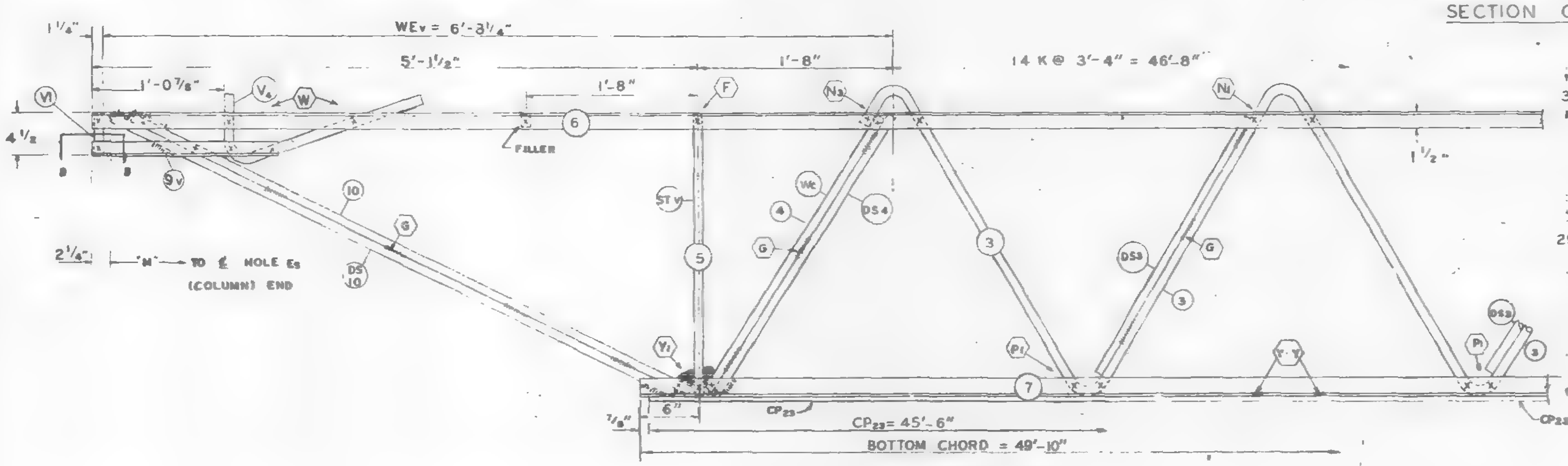


SECTION A-A

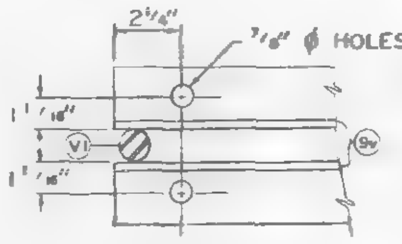


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

VOID

Truss length not req'd

NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-32	1-6-69
7-AB4-50	6-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T36C 598	6	A242	2"x1 1/2"x.31"	59'-8"	7	A36	3"x2"x.37	49'-10"	3 3A	A242 A242	1.14 1.14	[illegible] 34'-8 1/2	8 1/2 K @ 3'-4" = 28'-4" 5 1/2 K @ 3'-4" = 18'-4"	11	1.14	59'-2 3/4"	–	—	—	CP23	A36	4 1/2"x.39	45'-6"	DS2	A242	.75	2'-4 [illegible]/8"	CP29	A36	4 1/2"x.39"	3'-5"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LGTH.
C32T36C 598	9	A242	2"x1 1/2"x.37	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	2'-9 1/2"	DS1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

DOUBLE STRUT			
MK	TYPE STEEL	DIA	LENGTH
DS 3A	A242	.75	2'-6 3/4"

CORE END

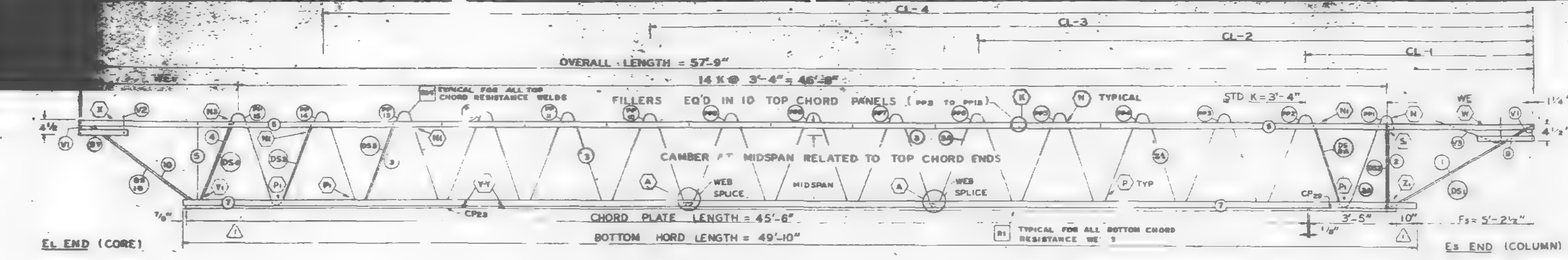
EL END TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					DOUBLE STRUT			DOUBLE STRUT				(2) DOUB (PEOD)			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DI	LENGTH
C32T36C 598	9	A242	2"x1 1/2"x.37	1'-6"	6'-8 1/8"	10	A242	1.14	5'-4 1/4"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	—	—	—	A242	1.14	2'-2 1/2"	4	A242	1	1.14	2'-9'	A242	.92	2'-9 1/2"	DS10	A242	.75	5'-4 1/4"	DS3	A242	.92	2'-6 3/4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

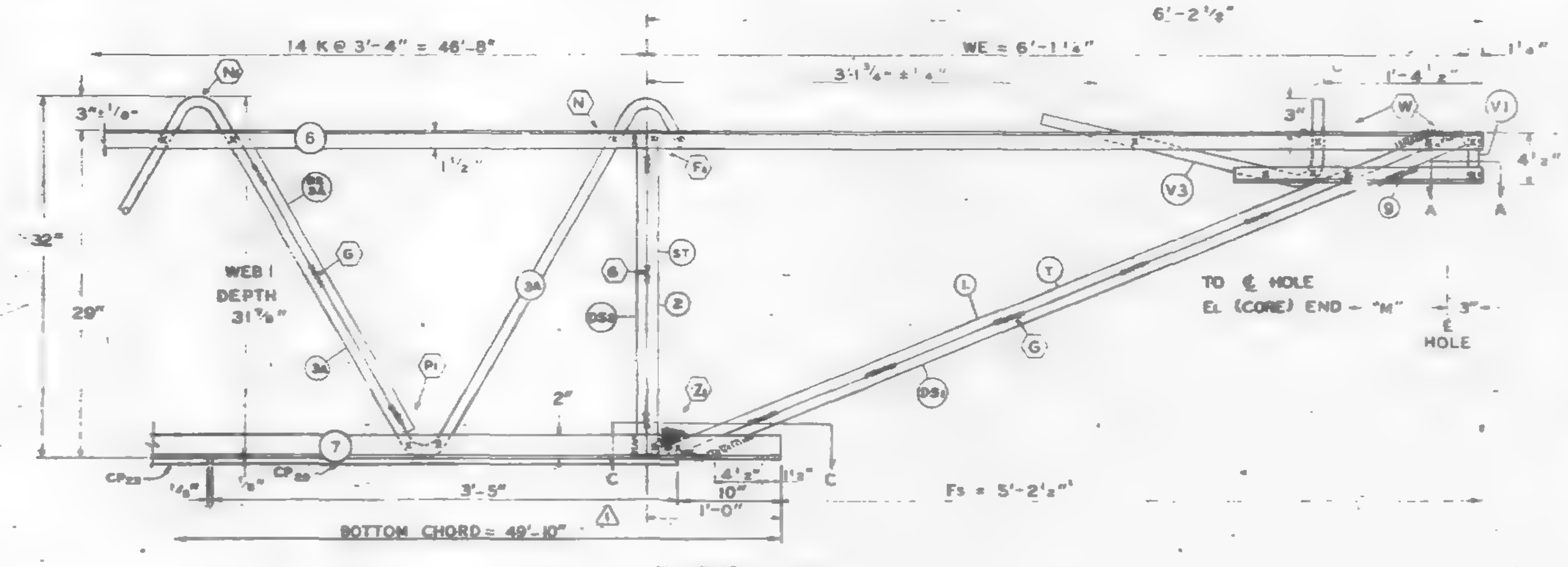
FLOOR TRUSS C32T36C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

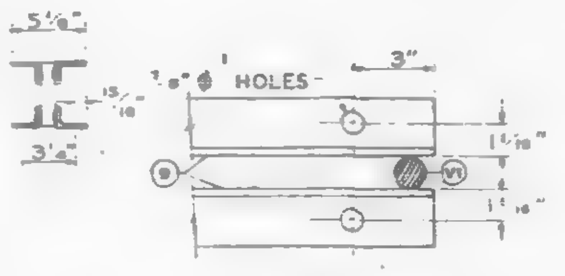
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-32 PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A. DATE	DRAWN BY: [illegible] DATE: MAY 6, 1969
APPROVED FOR FABRICATION BY: ______ FOR FABRICATOR DATE. LACLEDE STEEL CO.	CHECKED BY: [illegible] IN CHARGE OF PROD. DEV. DATE: MAY 6, 1969
DETAILED BY: A.C. WEBER	FABRICATION CONT. NO. W.T.C. 221 SHEET NO. ST236C



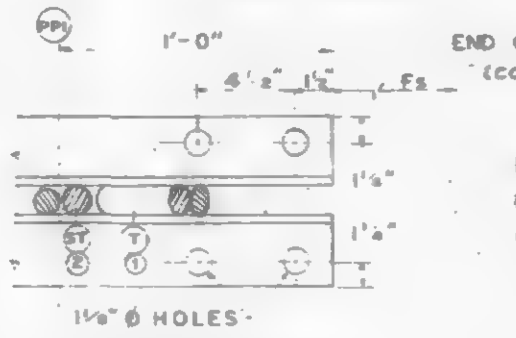
TRUSS ELEVATION



Es END (COLUMN)



SECTION A-A

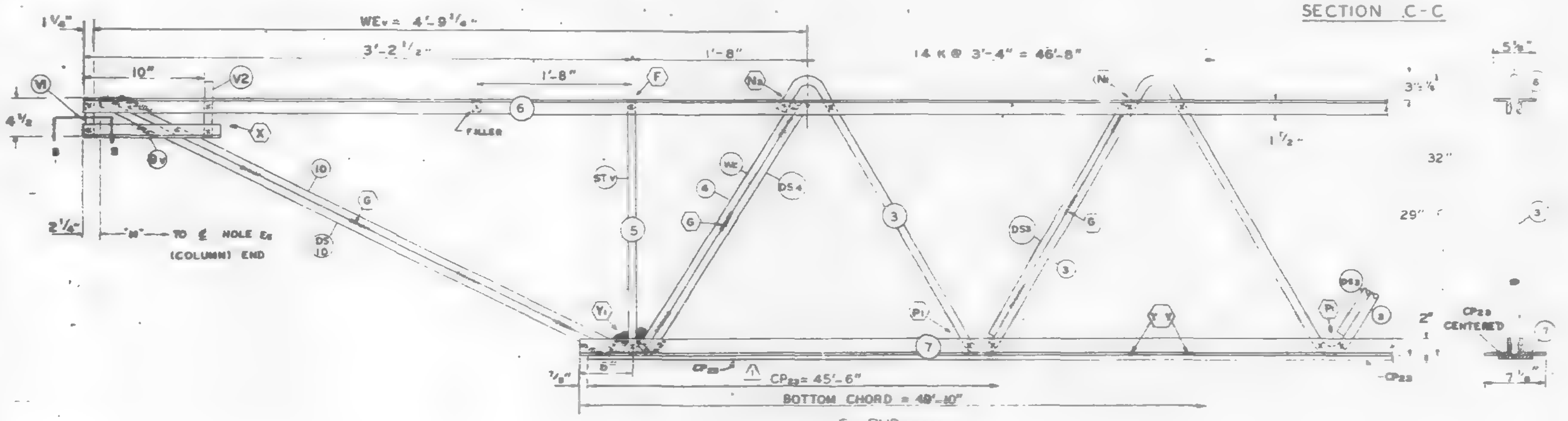


DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS

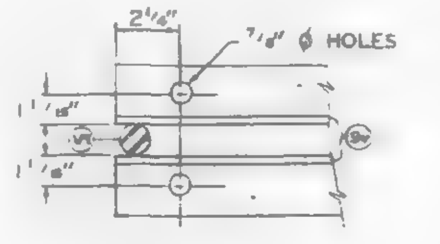
SECTION C-C

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST280 – ST284 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3. DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e. R1

FABRICATION REQUIREMENTS	[illegible]	[illegible]
CAMBER AT MIDSPAN	2 1/4"	3/8"
DESIGN DEPTH	29"	1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-9"	± 3/[illegible]"
WEB DEPTH	31 7/8"	± [illegible]



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
1	2-18-69	AS NOTED	T.M.C.

REF DRWG.

7-A81-22	[illegible]
7-A84-50	8-1-68
7-A83-41	1-6-69
7-A8-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF K	FILLER NO	DIA	"M" C-C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	CHORD PLATE (1) MK	TYPE STEEL	SIZE	LENGTH
C32T36N-579	6	A242	2"x1 1/2"x.31"	57'-9"	7	A36	3"x2"x.37	49'-10"	3 / 3A	A242 / A242	1.14 / 1.14	[illegible]	8 1/2 K@3'-4"=28'-4" / 5 1/2 K@3'-4"=18'-4"	11	1.14	57'-3 3/4"	–	–	—	CP23	A36	4 1/2"x.39	45'-6"	DS2	A242	.75	2'-4 7/8"	CP29	A36	4 1/2"x.39"	3'-5"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH.
C32T36N-579	9	A242	2"x1 1/2"x.37 (1)	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	[illegible]	DS1	A242	.92	6'-3 1/2"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
DS3A	A242	.75	2'-6 3/4"

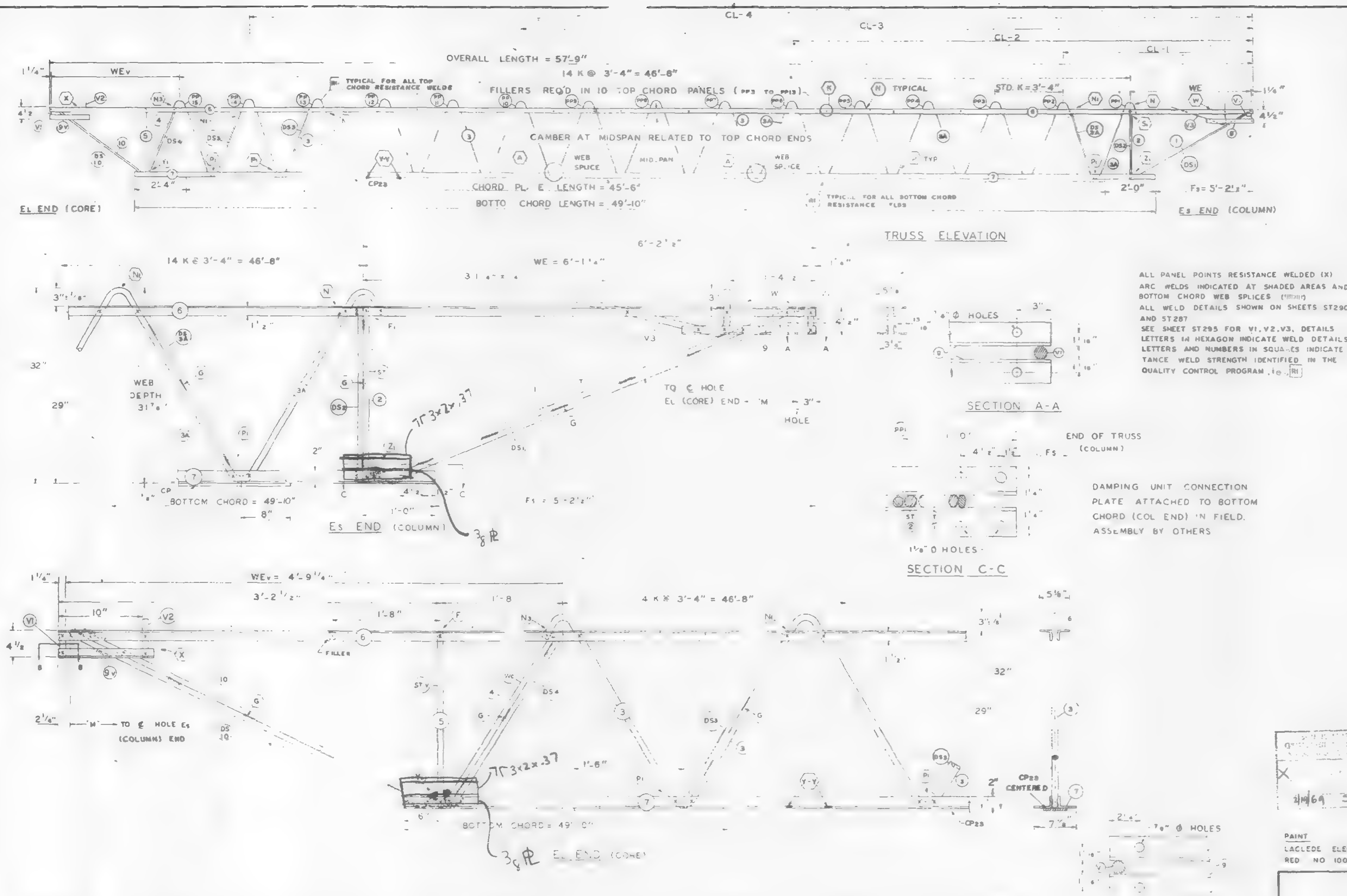
CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT (1) MK	TYPE STEEL	DIA	LENGTH	VERTICAL "Sv" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT (1) MK	TYPE STEEL	DIA	LENGTH	(2) DOUBLE (PEOD) STRUT MK	TYPE STEEL	DIA	LENGTH
C32T36N-579	9	A242	2"x1 1/2"x.37 (1)	1'-0"	4'-9 1/4"	10	A242	1.14	3'-5 [illegible]/4	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 3/8"				4	A242	1	1.14	2'-9 1/2"	DS4	A242	.92	2'-9 1/2"	DS10	A242	.75	3'-8 [illegible]/4	DS3	A242	.92	2'-6 3/4"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T36N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A81-22 PLATE
APPROVED FOR FABRICATION BY: [signature] FOR P.O.N.Y.A. DATE 1/24/69
DRAWN BY: [illegible] DATE: JAN 20 1969
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR DATE
CHECKED BY: T.M.C. DATE: JAN 21 1969
IN CHARGE OF PROD. DCV.
DETAILED BY A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST236N



ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST287
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R1

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'	± 3/8"
WEB DEPTH	8"	± 1/

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" C-C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T36N-579	6	A242	2"x1 1/2"x.31	57'-9"	7	A36	3"x2"x.37	49'-10"	3 3A	A242 A242	1.14 1.14	33'-4 3/4" 34'-8 1/2"	8 1/2 K @ 3'-4" = 28'-4" 5 1/2 K @ 3'-4" = 18'-4"	11	1.14	57'-3 3/4"	–	–	—	CP 23	A36	4 1/2"x.39	45'-6"	DS2	A242	.75	2'-4 7/8"

SECTION B-B

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH
C32T36N-579	9	A242	2"x1 1/2"x.25 (.37)	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	[illegible]	1.14	2'-9 1/2"	DS 1	A242	.92	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
DS 3A	A242	.75	2'-6 3/4"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "TV" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STV" STRUT MK	TYPE STEEL	DIA	LENGTH	STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(2) DOUBLE (PEOD) STRUT MK	TYPE STEEL	DIA	LENGTH
C32T36N-579	9	A242	2"x1 1/2"x.25 (.37)	1'-0"	4'-9 1/4"	10	A242	1.14	3'-7 3/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 5/8"				4	A242	1	1.14	2'-9 1/2"	DS4	A242	.92	2'-9 1/2"	DS10	A242	.75	3'-7 3/8"	DS3	A242	.92	2'-6 3/4"

2/19/69 SK

REF DRWG.

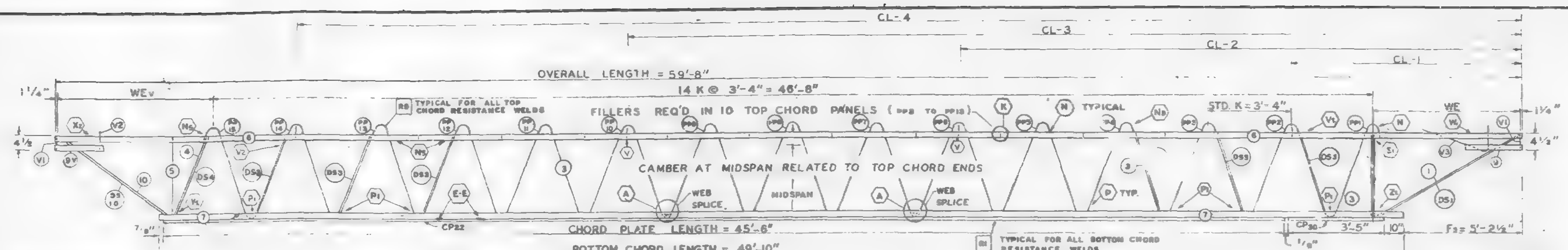
7-AB1-32	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T36N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

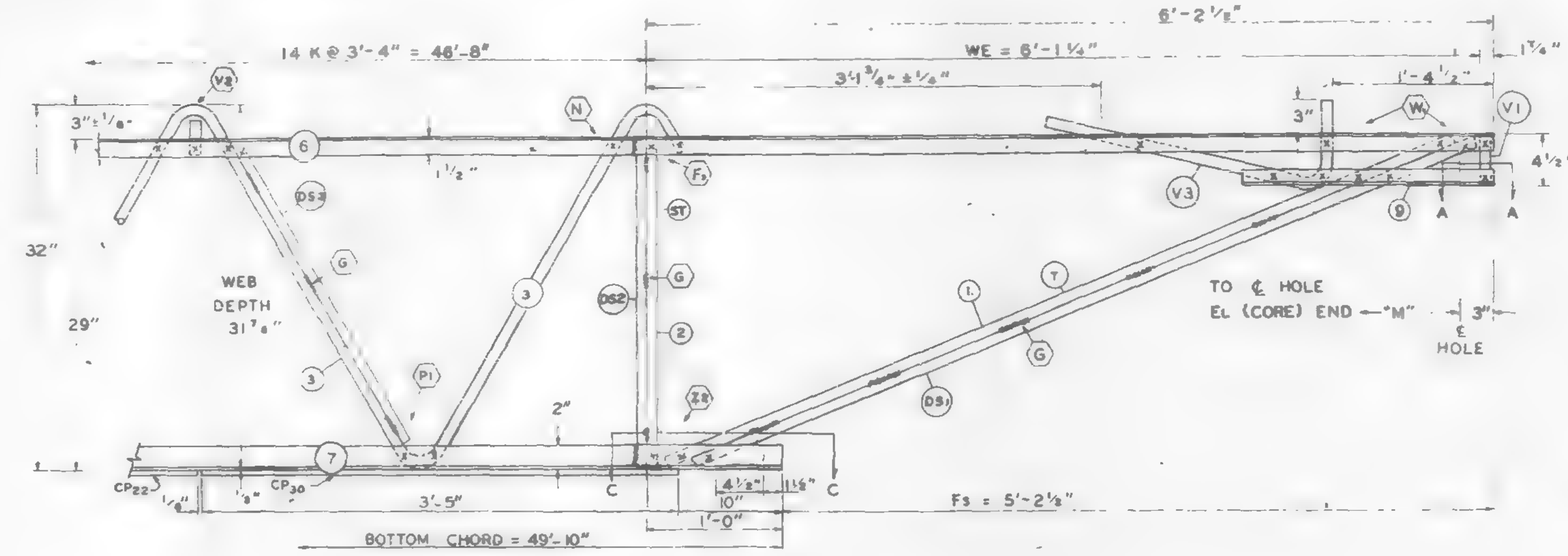
FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO 7-AB1-32 PLATE
APPROVED FOR FABRICATION BY FOR PONYA DATE
DRAWN BY L.R. DATE JAN 20 1969
APPROVED FOR FABRICATION BY A C WEBER FOR FABRICATOR DATE
CHECKED BY T M CHURA DATE JAN 21 1969
IN CHARGE OF PROD DEV
DETAILED BY A C WEBER
FABRICATION CONT NO WTC 221
SHEET NO ST236N



EL END (CORE)　　　　ES END (COLUMN)

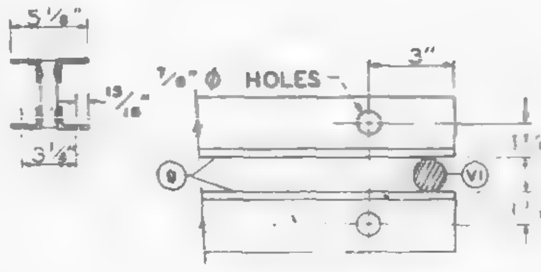
TRUSS ELEVATION

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

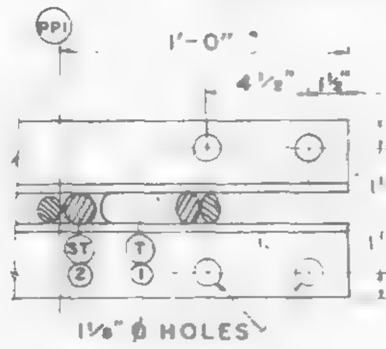


ES END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R1



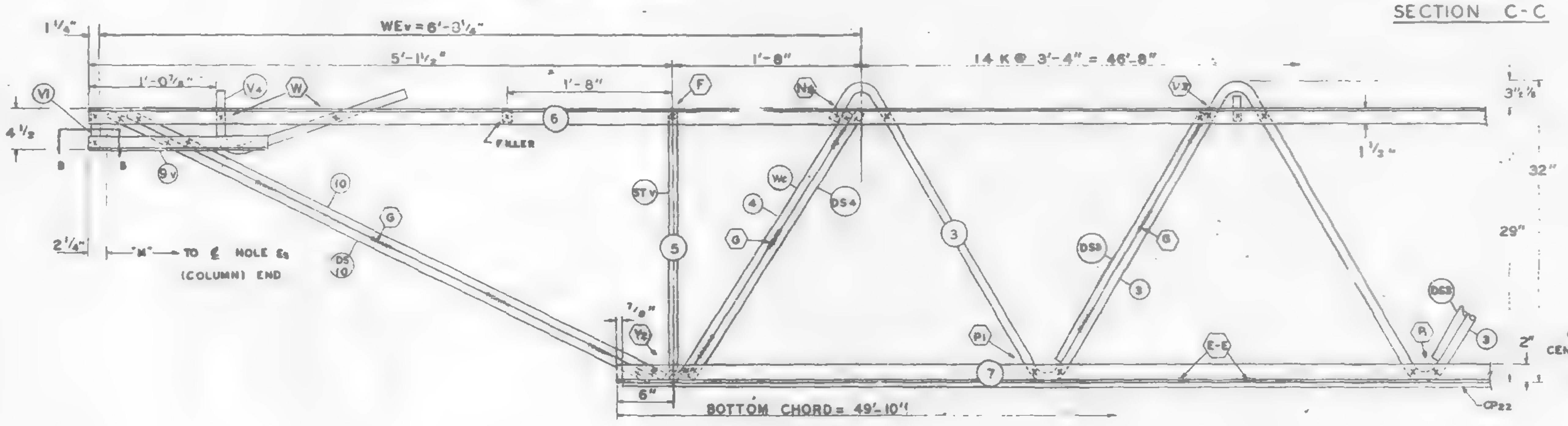
SECTION A-A



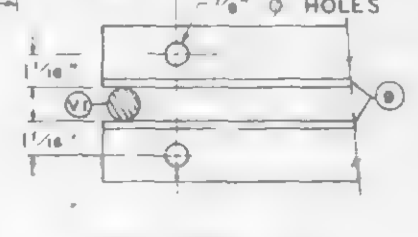
SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS

VOID



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

Truss length not reqd

REF DRWG.	
7-A81-53	1-6-69
7-A84-30	8-1-69
7-A83-41	1-6-69
7-A81-53	7-28-69

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T37C-598	6	A242	2"x1½"x.37	59'-8"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	59'-2¾"	4	1.14	3"	CP22	A36	6½"x.50	45'-6"	DS2	A242	.75	2'-4⅞"

COLUMN END

ES END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LGTH.
C32T37C 598	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3½"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅞"	A242	1.14	2'-9½"	DS3	A242	1.14	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2'

CHORD PLATE			
MK.	TYPE STEEL	SIZE	LENGTH
CP30	A36	6½"x.50"	3'-5"

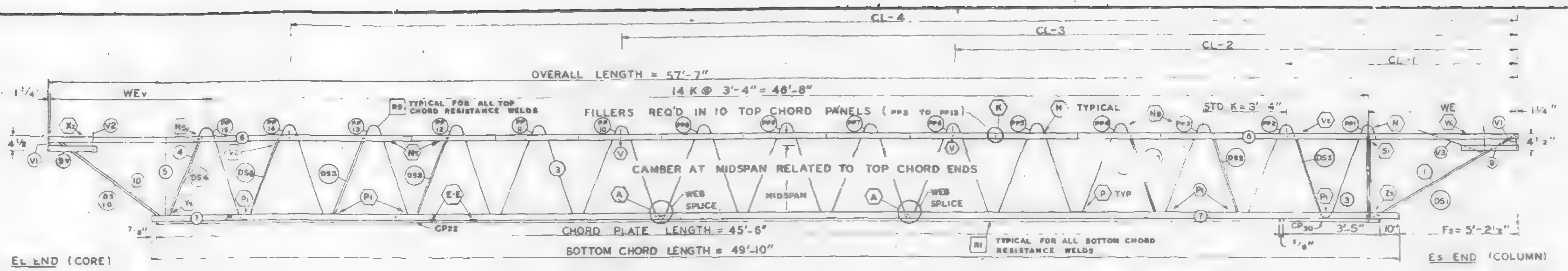
CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(8) DOUBLE (REQD) STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	C/C	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T37C 598	9	A242	2"x1½"x.37	1'-6"	6'-8"	10	A242	[illegible]	5'-4¼"	5	A242	1.14	[illegible]	[illegible]	[illegible]	[illegible]	—	—	—	A242	[illegible]	2'-2½"	4	A242	[illegible]	1.14	[illegible]	[illegible]	A242	1.14	2'-9½"	DS10	A242	1.14	5'-4¼"	DS3	A242	1.14	2'-8¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

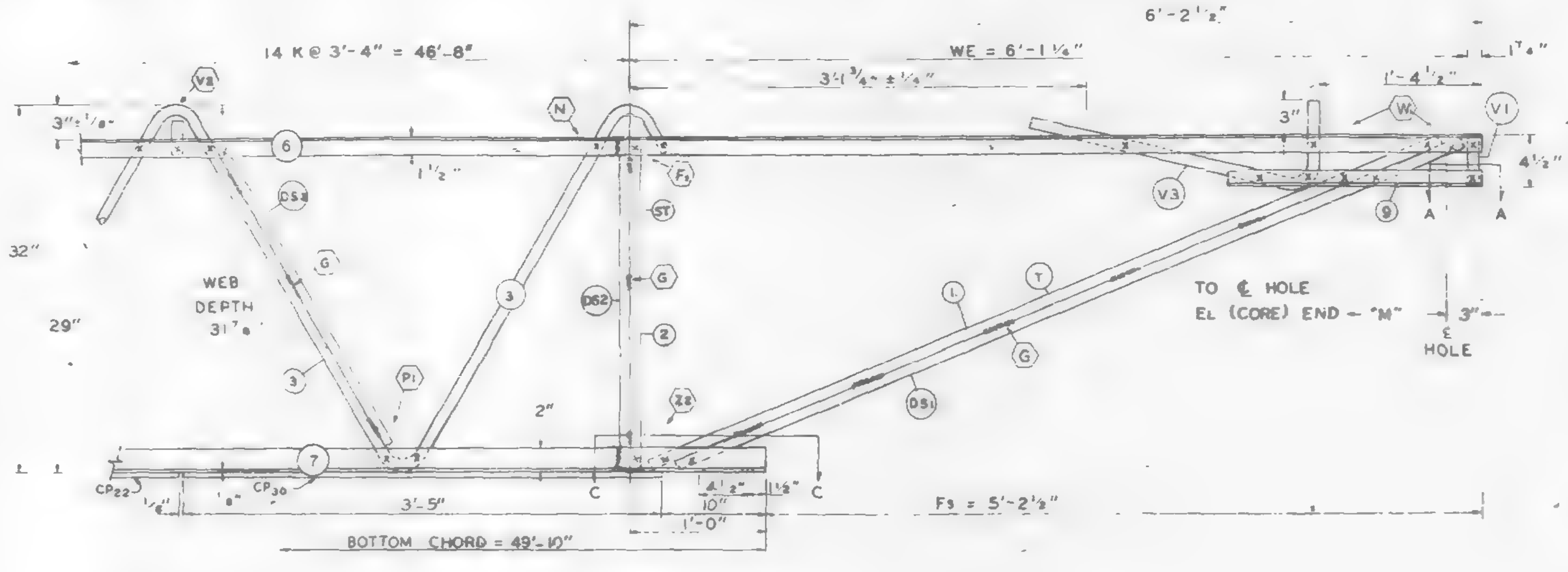
FLOOR TRUSS C32T37C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A&B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO. 7-A81-53
APPROVED FOR FABRICATION FOR P.O.N.Y.A. BY: DATE:
APPROVED FOR FABRICATION BY: DATE:
DRAWN BY: DATE: MAY 6, 1969
CHECKED BY: DATE: MAY 6, 1969
DETAILED BY: A.C. [illegible]



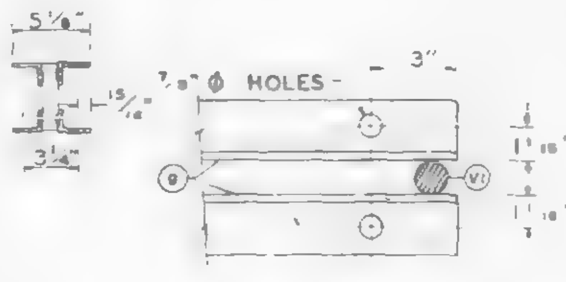
TRUSS ELEVATION

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

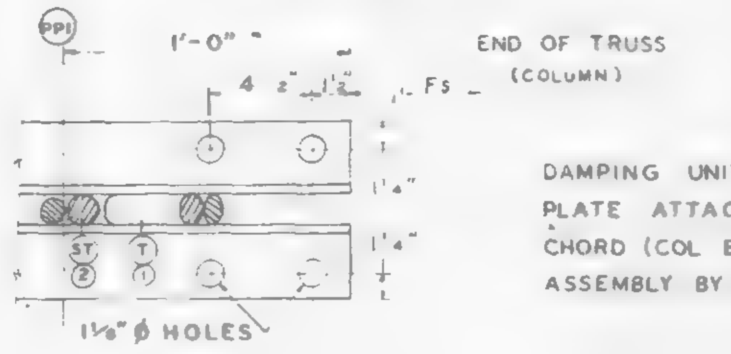


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST285
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie., (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1]



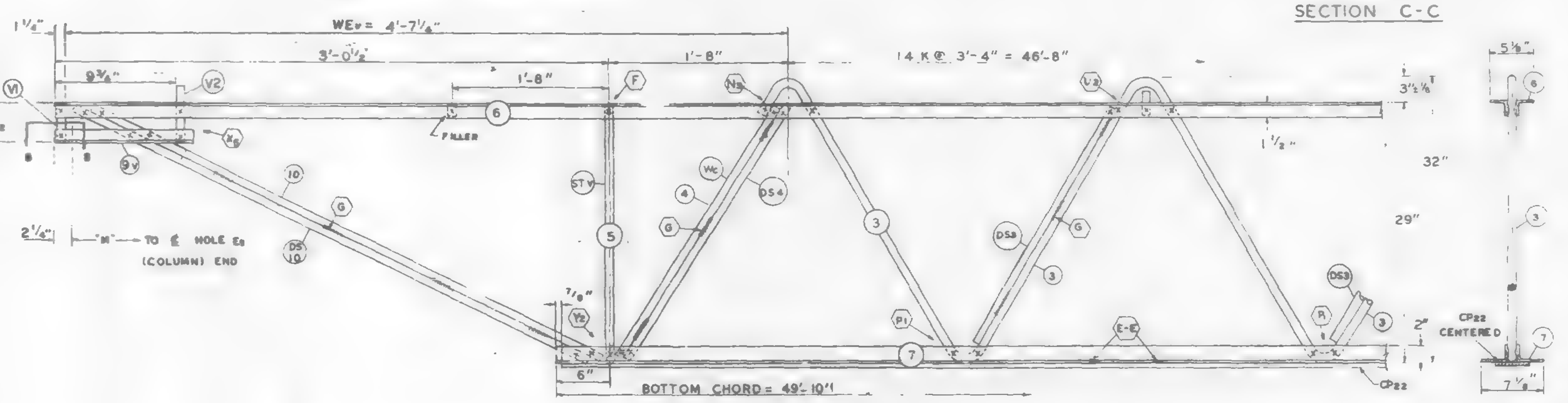
SECTION A-A



SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS

VOID



EL END (CORE)

NO.	DATE	REVISION	BY

Truss length not req'd

REF DRWG.

7-AB1-38	1-8-69
7-AB4-50	8-1-68
7-AB3-41	1-8-69
7-AB1-53	7-22-68

SECTION B-B

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	K	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
C32T37P 577	6	A242	2"x1½"x.37"	57'-7"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-1¾"	4	1.14	3"	CP22	A36	6½"x.50	45'-6"	DS	A242	.75	2'-4"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LGTH.
C32T37P 577	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	0'-3⅛"	2	A242	1.14	2'-4⅜"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS	A242	1.14	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10½"	36'-2½"	49'-6½"	2⅞"

CHORD PLATE			
MK.	TYPE STEEL	SIZE	LENGTH
CP30	A36	6½"x.50"	3'-5"

CORE END

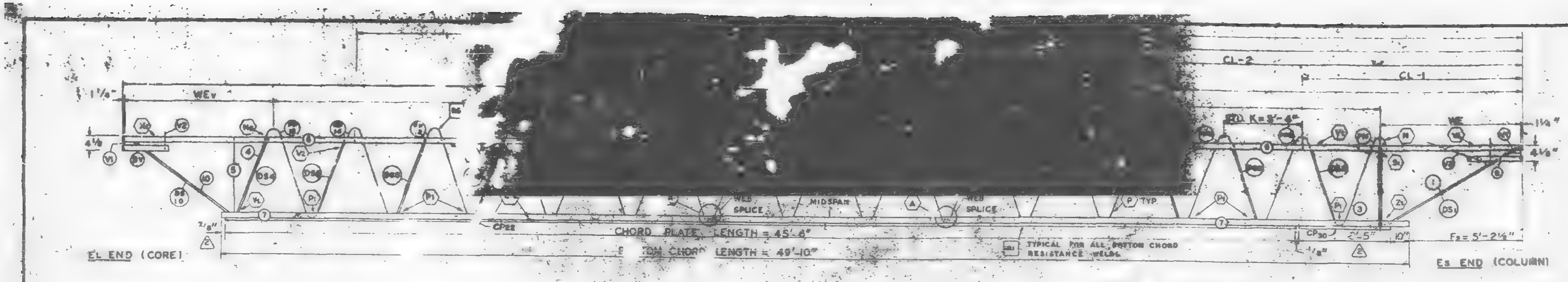
EL END TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "V" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(8) DOUBLE REQD STRUT			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	PCS	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	A	LENGTH
C32T37P 577	9	A242	2"x1½"x.37	11¾"	4'-7¼"	10	A242	1.14	3'-7"	5	A242	1.14	2'-4"	A242	1.14	4⅜"	A242	1.14	7⅜"				4	A242	1	1.14	2'-9"	DS	A242	1.14	2'-9½"	DS10	A242	1¼	3'-7"	DS	A242	1.14	2'-6¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T37P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

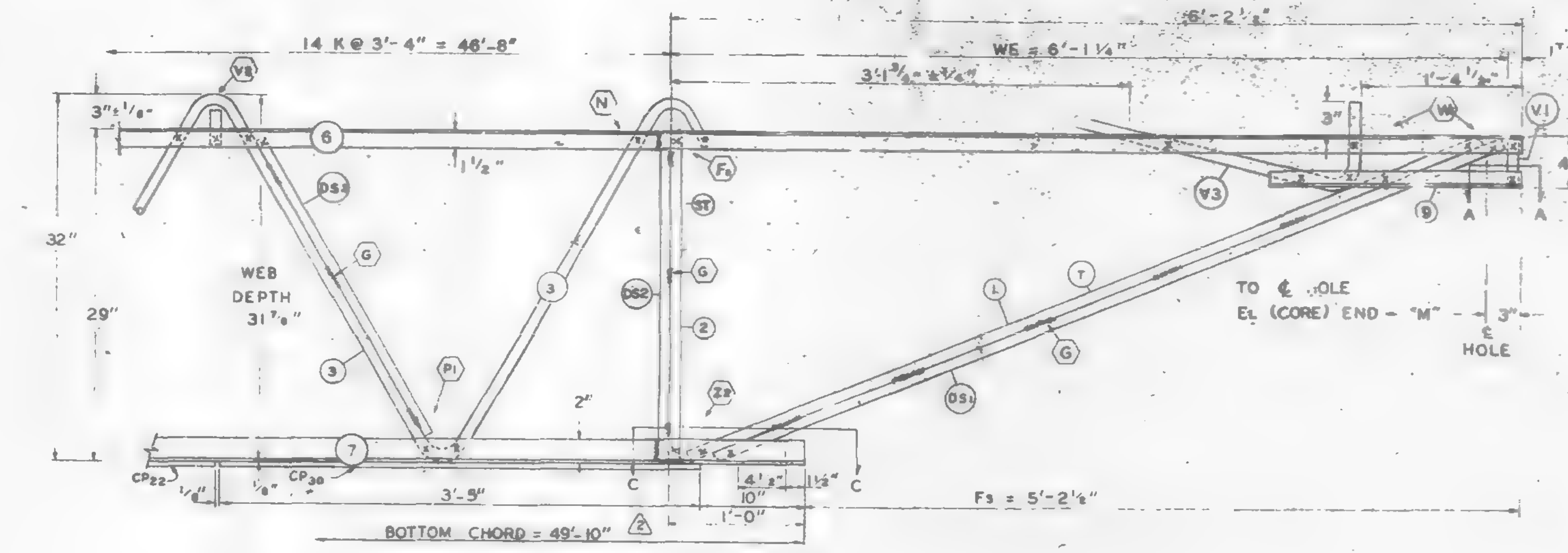
FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING 7-AB1-38	PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A.	DATE	DRAWN BY: DATE: MAY 6, 1968	
APPROVED FOR FABRICATION BY: ______ FOR FABRICATOR	DATE.	CHECKED BY: DATE: MAY 6, 1968	IN CHARGE OF PROD. DIV.
LACLEDE STEEL CO. DETAILED BY		FABRICATION CONT. W.T.C. 221	SHEET



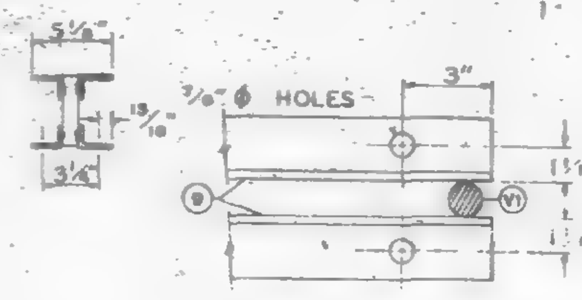
TRUSS ELEVATION

FABRICATION TOLERANCES	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	3'-4"	[illegible]
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

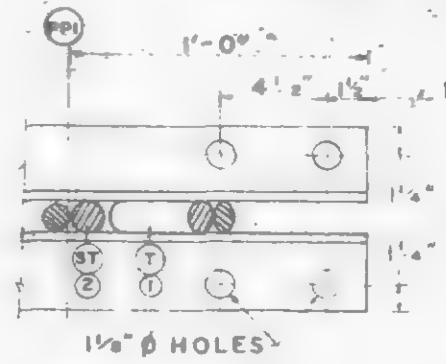


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286 ⚠1
SEE SHEET ST295 FOR V1, V2 V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH-IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [R1]

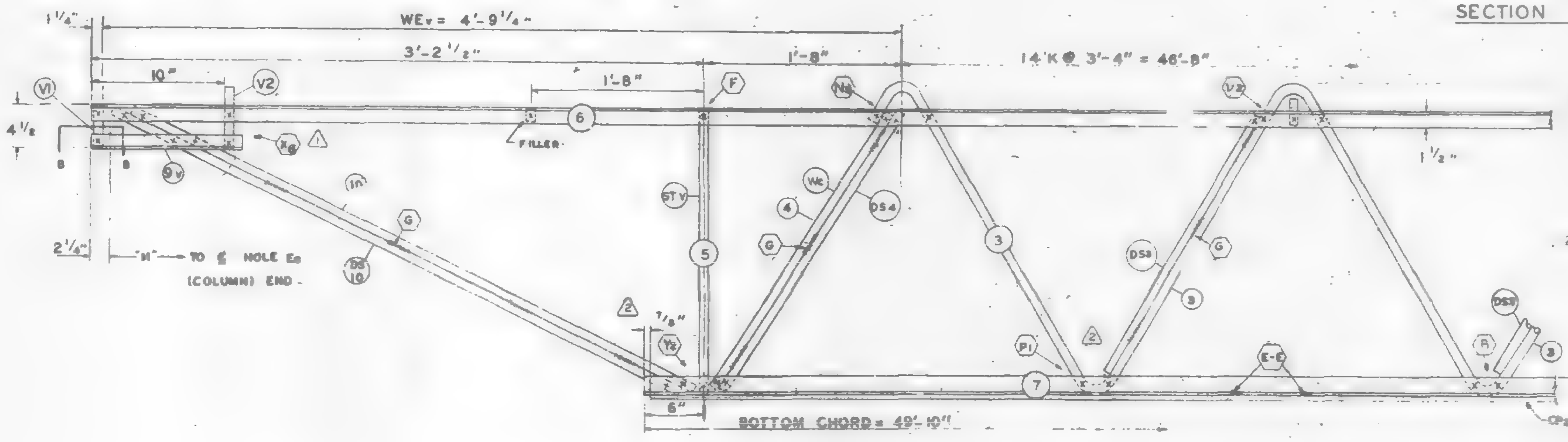


SECTION A-A

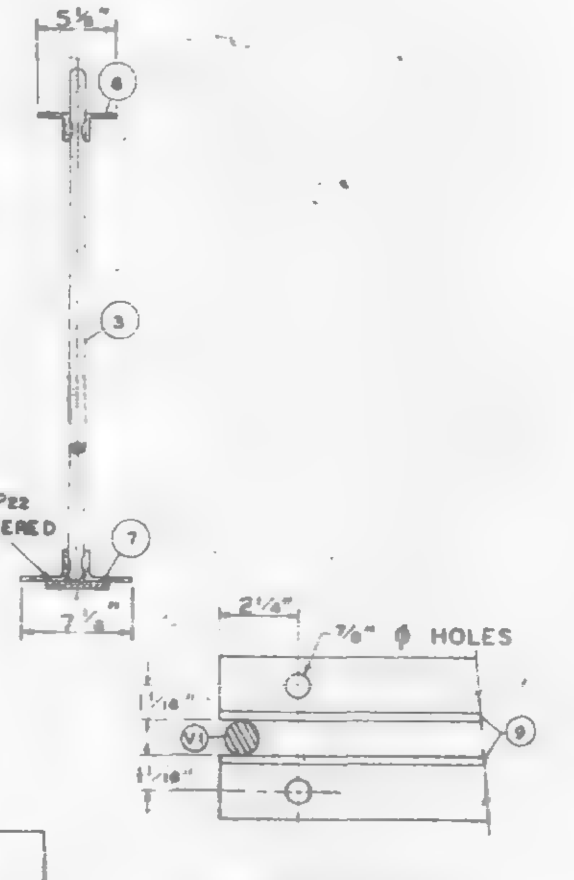


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS.



EL END (CORE)



SECTION B-B

NO	DATE	REVISION	BY
2	2-26-69	AS NOTED	G.D.
1	2-18-69	AS NOTED	T.M.

REF DRWG.

7-A81-38	1-6-69
7-A84-30	8-1-69
7-A83-41	1-6-69
7-A81-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T37N-579	6	A242	2"x1½"x37	57'-9"	7	A36	3"x2"x37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"	4	1.14	3"	CP22	A36	6½"x.50	45'-6"	DS2	A242	.75	2'-4⅞"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32T37N-579	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	[illegible]	2'-9½"	[illegible]	A242	1.14	[illegible]

⚠1

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CHORD PLATE ⚠2			
MK	TYPE STEEL	SIZE	LENGTH
CP30	A36	6½"x.50"	3'-5"

CORE END

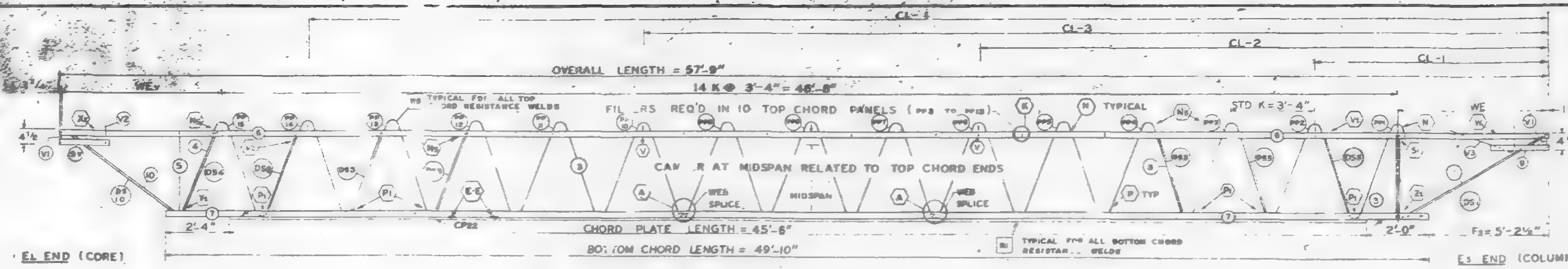
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(6) DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T37N-579	9	A242	2"x1½"x.37	1'-0"	4'-9¼"	10	A242	1.14	3'-8¼	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜"				4	A242	1	1.14	2'-9½"	DS4	A242	1.14	2'-9½"	DS10	A242	1.14	3'-6¼	DS9	A242	1.14	2'-8¾"

⚠1

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

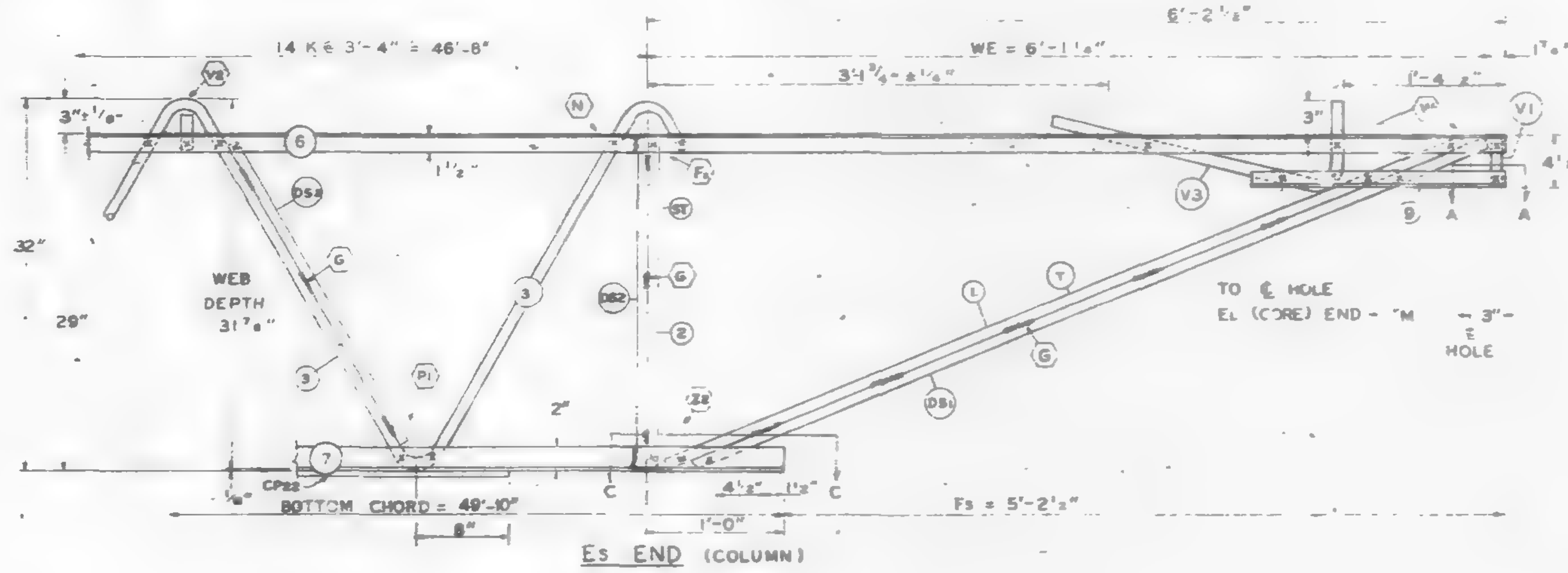
FLOOR TRUSS C32T37N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY	
FABRICATED AT: MADISON, ILLINOIS	DESIGN DRAWING NO 7-AM-[illegible] PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. [signature] DATE 2/14/69	DRAWN BY: [illegible] DATE JAN. 20 1969
APPROVED FOR FABRICATION BY FOR FABRICATOR LACLEDE STEEL CO. DATE	CHECKED BY [illegible] DATE JAN. 21, 1969 — IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER	FABRICATION CONT. NO W.T.C. 221 — SHEET NO ST237N



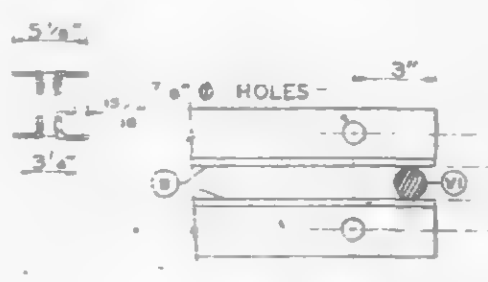
EL END (CORE) — Es END (COLUMN)

TRUSS ELEVATION

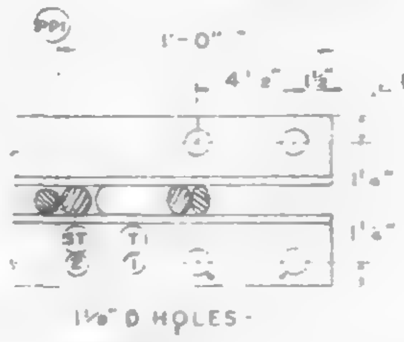


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST296
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e. [B]

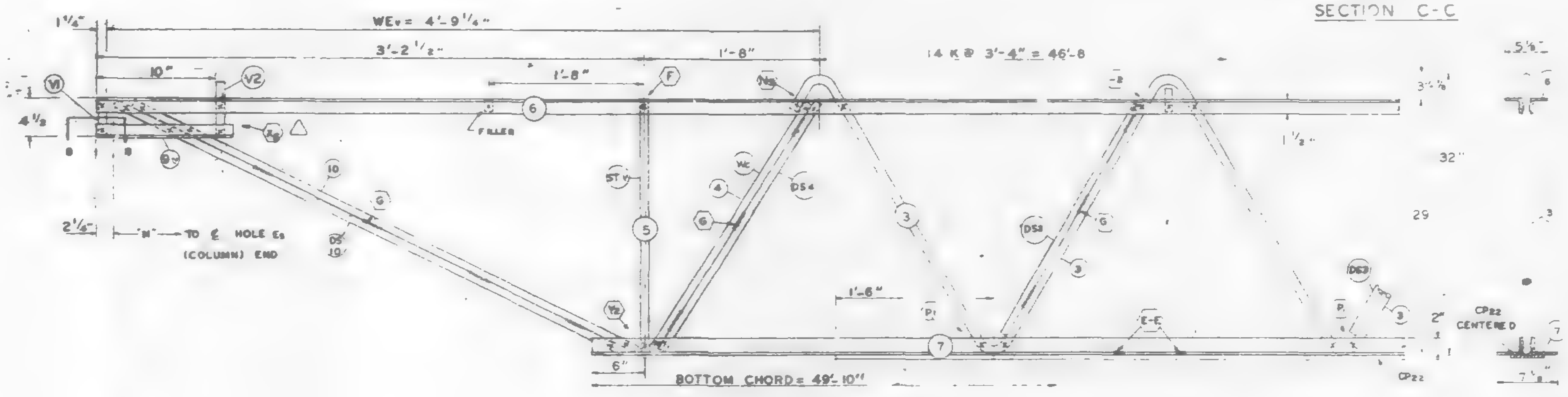


SECTION A-A

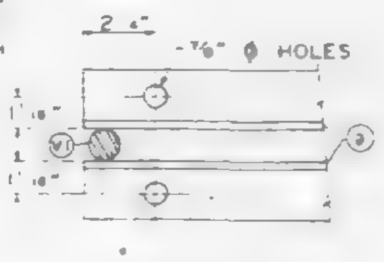


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

FABRICATION TOLERANCES		
CAMBER AT MIDSPAN		
DESIGN DEPTH		± 1/4
PANEL "K"	3'-4"	± 1/4
OVERALL LENGTH	57'-9"	3/8"
WEB DEPTH	31 7/8	± 1/4

NO	DATE	REVISION	BY
1	2-10-69	AS NOTED	I.M.C.

REF DRWG.

7-AB1-30	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	FILLER NO.	DIA.	"M" ℄ HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T37N-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"	4	1.14	3"	CP22	A36	6½"x.50	45'-6"	DS2	A242	.75	2'-4⅞"

CHECK DIMENSION FOR TRUSS FAB

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 SIZE	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH.
	C32T37N-579	9	A242	2"x1½"x.37	2'-3"	6'-1½"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	9½"	DS1	A242	1.14	6'-3⅛"

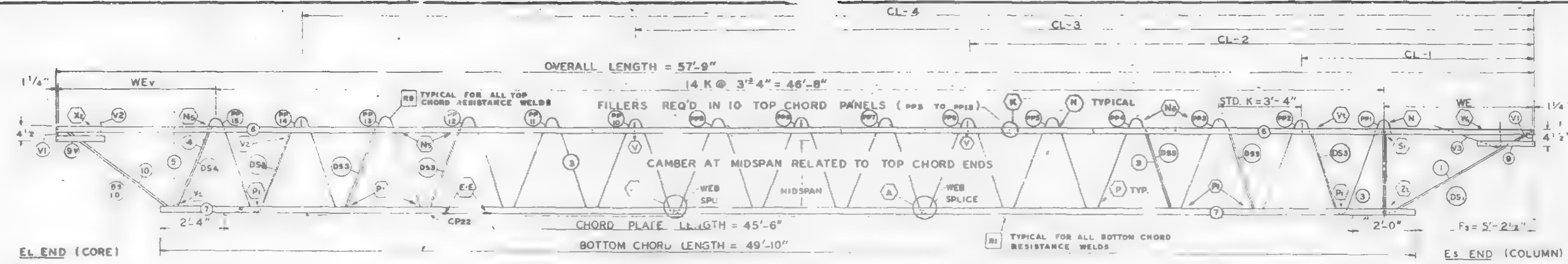
CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "T1" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA.	LENGTH	MK 2 TYPE STEEL	DIA.	LENGTH	MK V4 TYPE STEEL	DIA.	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(6) DOUBLE REQD STRUT MK	TYPE STEEL	DIA	LENGTH
	C32T37N-579	9	A242	2"x1½"x.37	1'-0"	4'-9¼"	10	A242	1.14	3'-8¼	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜	A242	1.14	7⅝				4	A242	1	1.14	2'-9½"	DS4	A242	1.14	2'-9½"	DS10	A242	1.14	3'-8¼	DS3	A242	1.14	2'-8¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER – N.Y.C.
THE PORT OF NEW YORK AUTHORITY

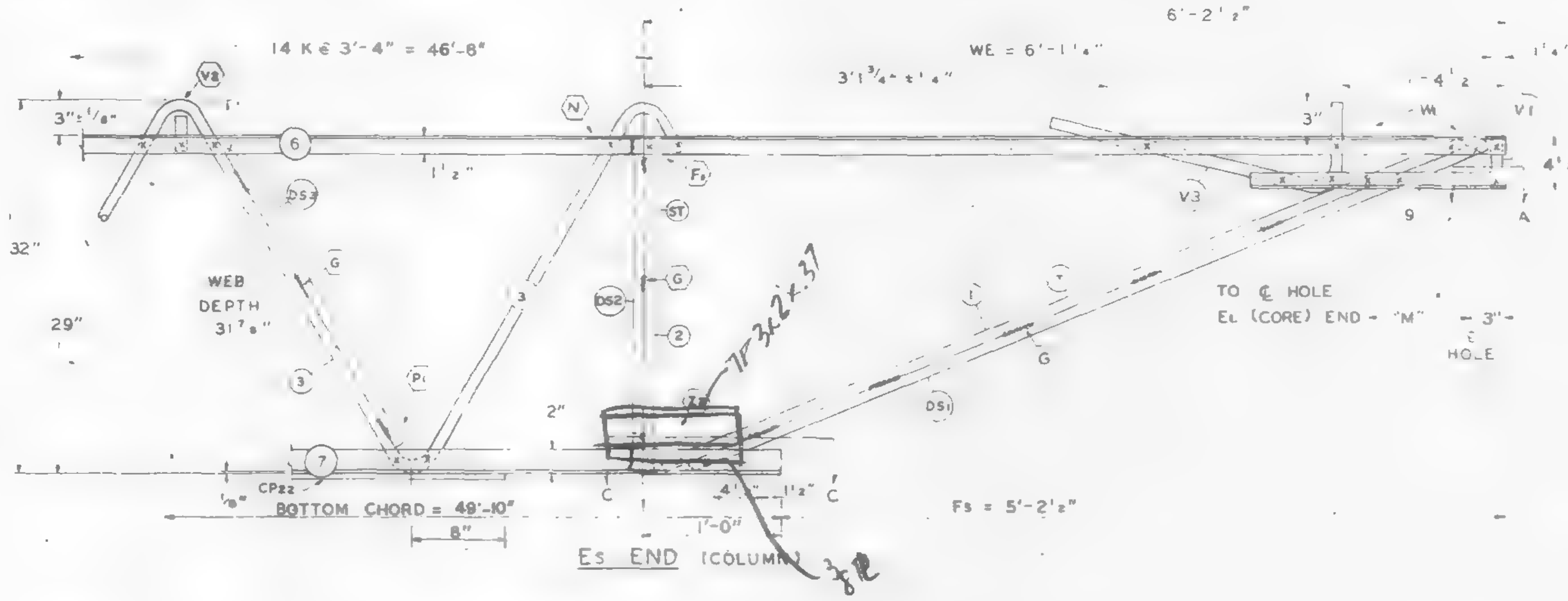
FLOOR TRUSS C32T37N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DRAWING NO. PLATE
APPROVED FOR FABRICATION — DATE
[redacted] FOR FABRICATOR — DATE
CHECKED BY — DATE — IN CHARGE OF
DETAILED BY — FABRICATION CERT. NO. W.T.C. 221 — SHEET NO.



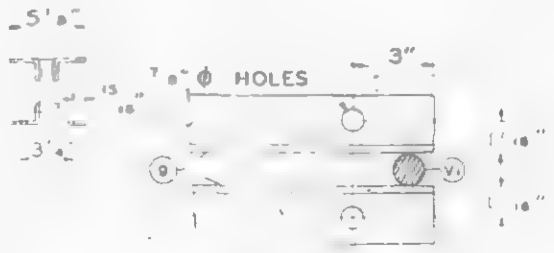
TRUSS ELEVATION

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/4"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-6"	± ,"
OVERALL LENGTH	57'-9"	/8"
WEB DEPTH	3' 7/8"	± 1/4"

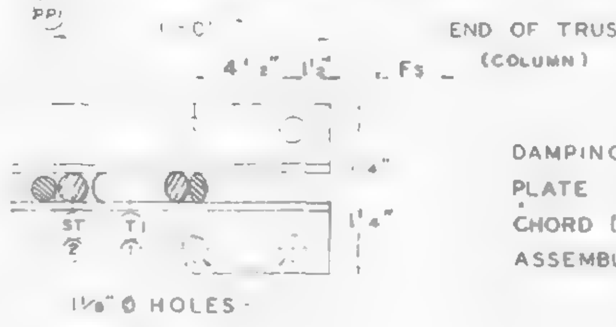


Es END (COLUMN) 3/8 PL

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST287
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS. ie., A
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM. ie., R1

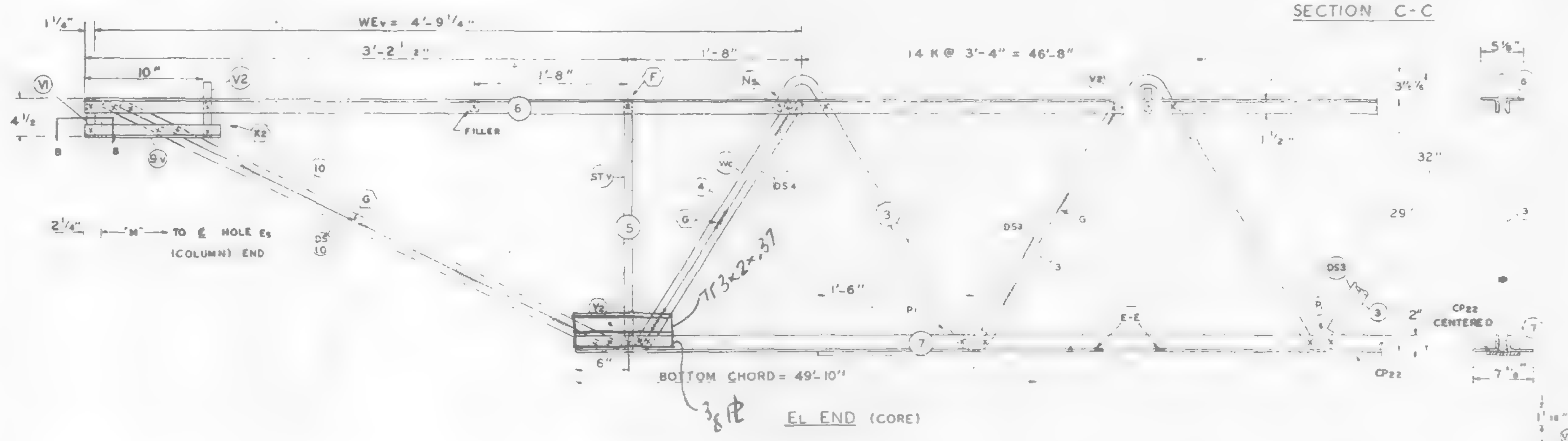


SECTION A-A

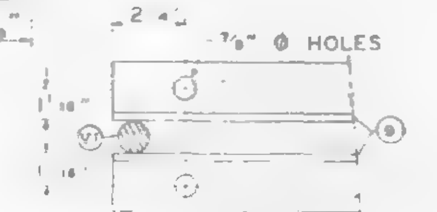


DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.

SECTION C-C



EL END (CORE)



SECTION B-B

REF DRWG.	
7-AB1-33	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10061

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO OF K	FILLER NO	DIA	"M" C-C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T37N-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾	4	1.14	3"	CP22	A242	6½"x.50	45'-6"	DS2	A242	.75	2'-4⅞"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH.
C32T37N-579	9	A242	2"x1½"x.25 (.37)	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	[illegible]	?'-9½"	DS1	A242	1.14	6'-3⅛"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "TV" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STV" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA	LENGTH	MK. V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(8) DOUBLE (REQD) STRUT MK	TYPE STEEL	DIA	LENGTH
C32T37N-579	9	A242	2"x1½"x.25 (.37)	1'-0"	4'-9¼"	10	A242	1.14	3'-7⅜"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	7⅜				4	A242	1	1.14	2'-9½"	DS4	A242	1.14	2'-9½"	DS10	A242	1.14	3'-7⅜"	DS3	A242	1.14	2'-6¾"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

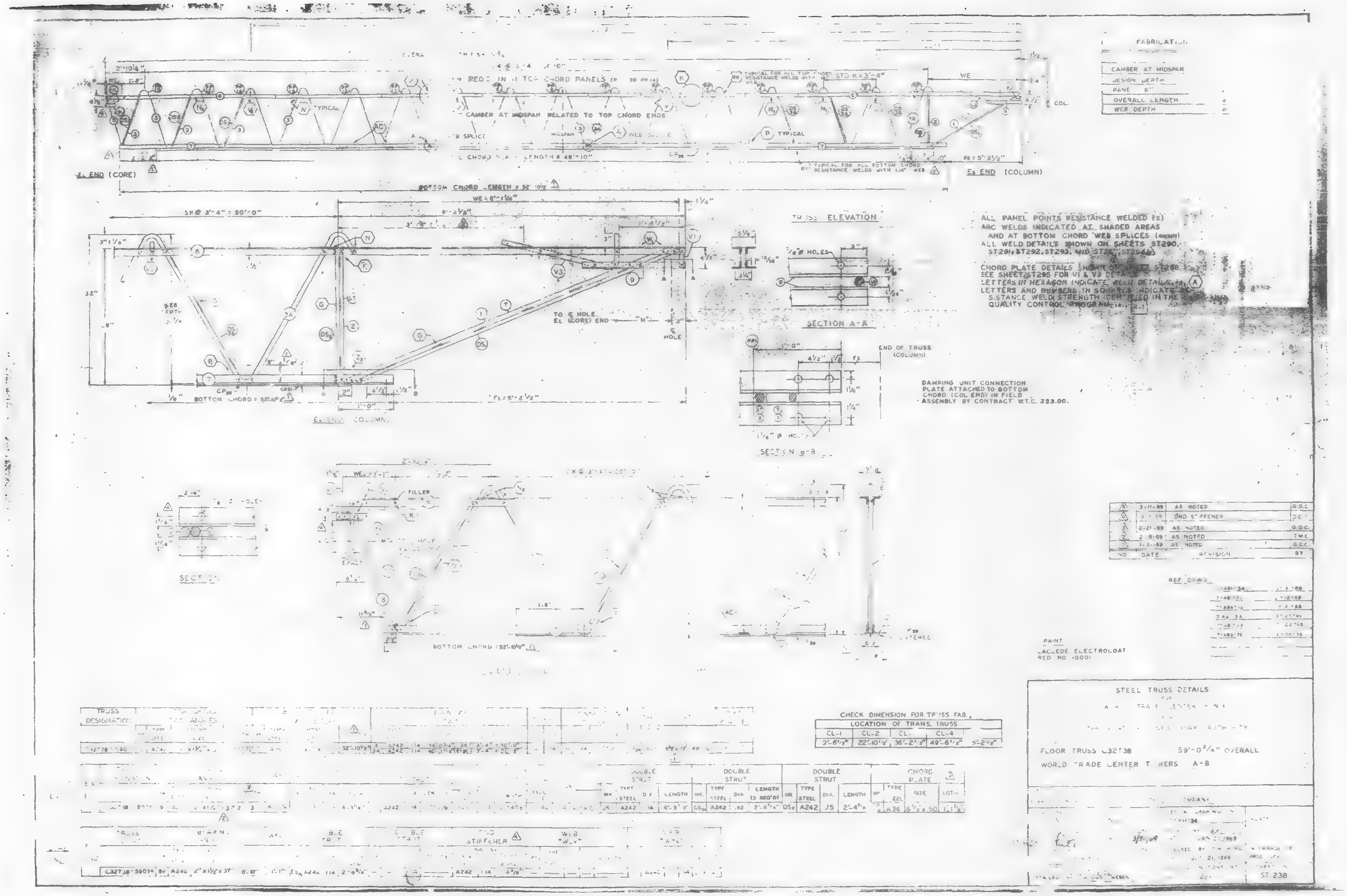
X
2/4/69 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

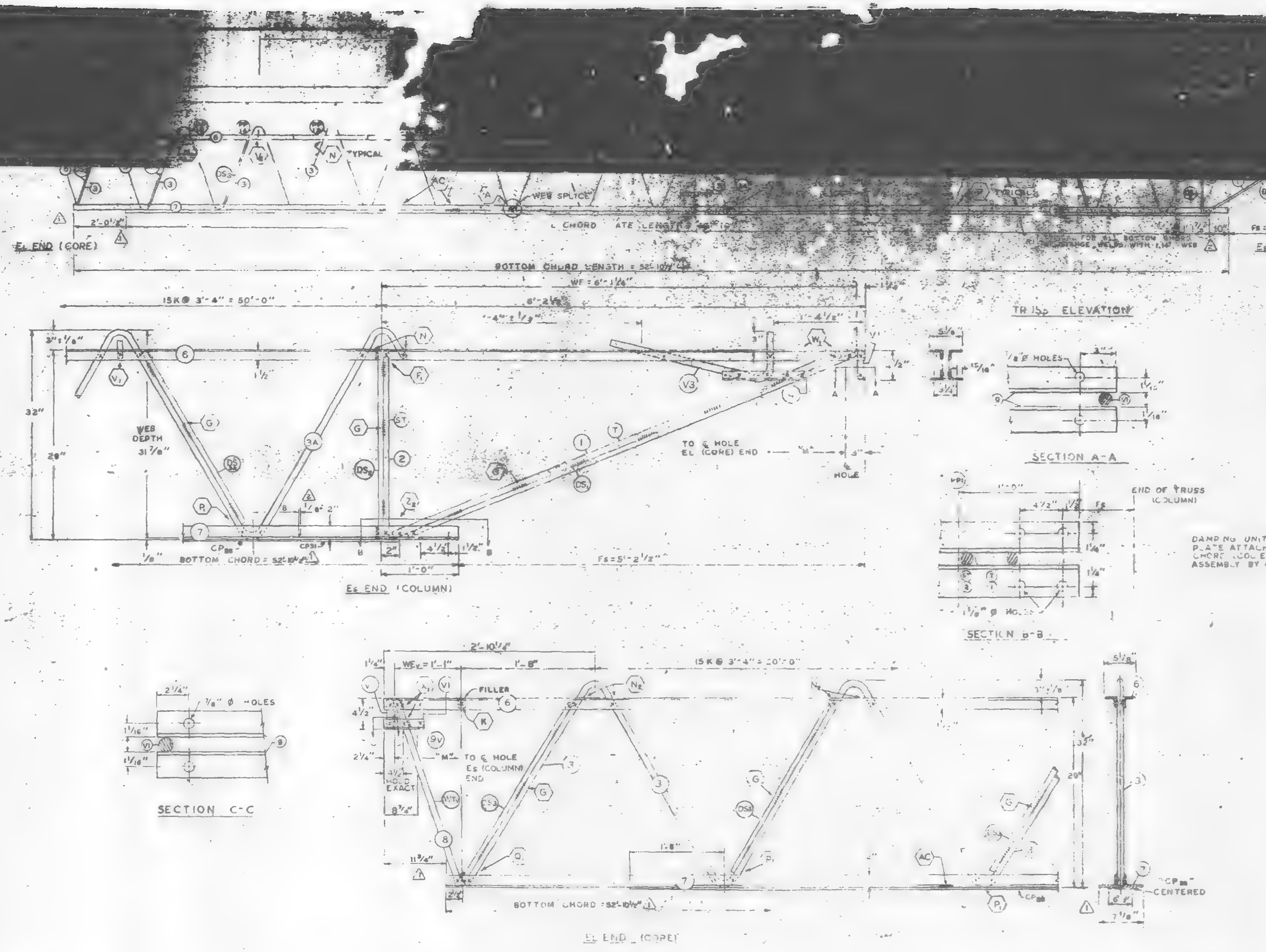
FLOOR TRUSS C32T37N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-33	PLATE
APPROVED FOR FABRICATION BY: FOR P.O.N.Y.A.	DATE	DRAWN BY: DATE: JAN. 20 1969	
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR.	DATE.	CHECKED BY: T.H. CHURA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST237N



TRUSS ELEVATION
SECTION A-A
SECTION B-B
END OF TRUSS (COLUMN)
CAMBER AT MIDSPAN RELATED TO TOP CHORD ENDS
TYPICAL
WEB SPLICE
BOTTOM CHORD LENGTH = 52'-10⅞"
ALL PANEL POINTS RESISTANCE WELDED (R)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST294
CHORD PLATE DETAILS SHOWN ON SHEET ST288
SEE SHEET ST295 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELDS STRENGTH DEFINED IN THE QUALITY CONTROL PROGRAM
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.
FILLER
CHECK DIMENSION FOR TRUSS FAB.
LOCATION OF TRANS. TRUSS
CL-1 CL-2 CL-3 CL-4
2'-6½" 22'-10¼" 36'-2¼" 49'-6½"
PAINT
LACLEDE ELECTROLOAT
RED NO. 10001
STEEL TRUSS DETAILS
FLOOR TRUSS C32T38 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B
FABRICATION
CAMBER AT MIDSPAN
DESIGN DEPTH
PANEL
OVERALL LENGTH
WEB DEPTH
NO. DATE REVISION BY
AS NOTED
END STIFFENER
REF. DWGS.
JAN. 21, 1969
ST 238



ALL PANEL POINTS RESISTANCE WELDED IX ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (if any)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

CHORD PLATE DETAILS SHOWN ON SHEET ST288. (2)
SEE SHEET ST245 FOR V1 & V3 DETAILS.
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R-1]

NO.	DATE	REVISION	BY
3	2-21-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-AB1-34	1-6-68
7-AB1-52	2-15-68
7-AB4-14	1-3-68
7-AB1-54	11-25-68
7-AB1-83	7-22-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

CHECK DIMENSION FOR TRUSS FAB.

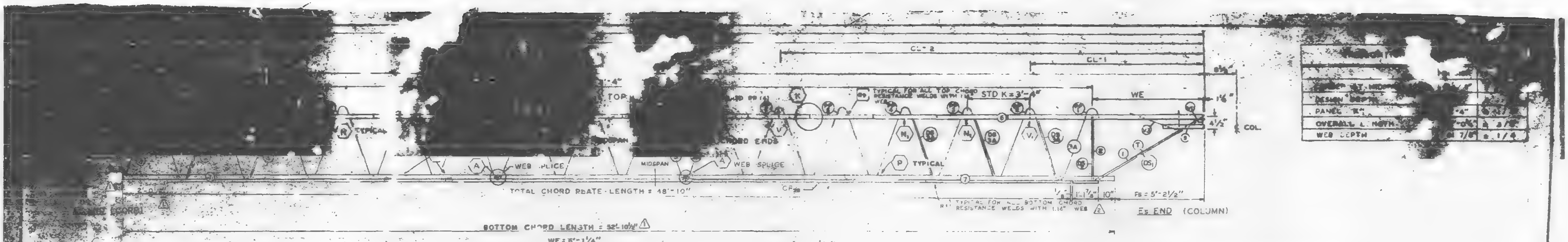
LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	5'-2 1/8"

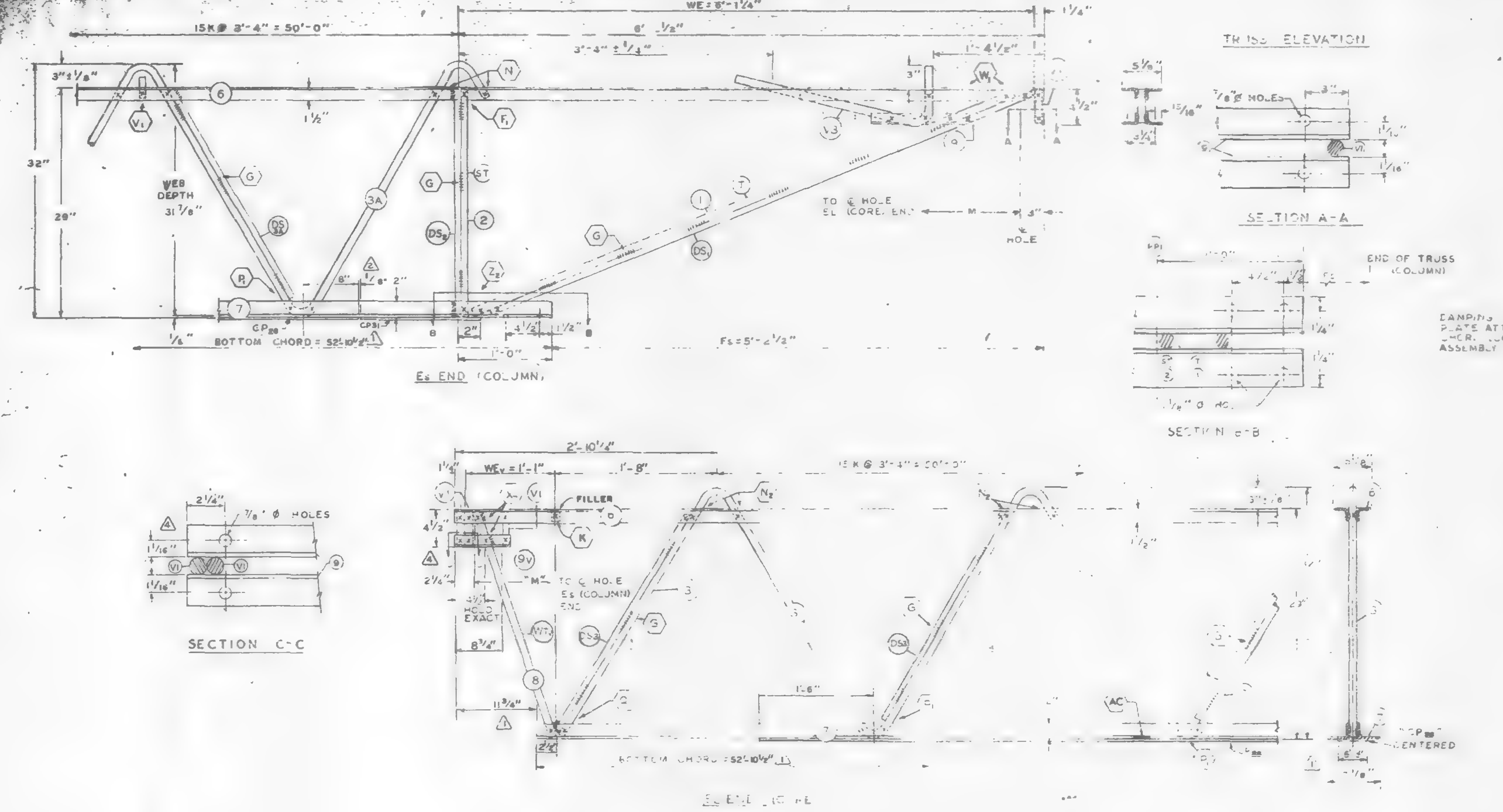
DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT				CHORD PLATE (2)			
MK.	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH (3 REQ'D)	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	SIZE	LGTH
DS1	A242	1.14	6'-3 1/8"	DS3A	A242	.92	2'-6 3/4"	DS2	A242	.75	2'-4 7/8"	CP38	A36	6 1/2 x 50	1'-1 7/8"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T38 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

STEEL COMPANY
7-AB1-34
DATE 3/4/69
JAN 21, 1969
CHECKED BY T.M. CHURA
JAN 21, 1969
LACLEDE STEEL CO.
FABRICATION CONT. NO. 221
SHEET NO. ST 238





DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD, COL. END, IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (IIIIIIII)
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287, ST294 (4)
(2)
CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST248 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie, (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie, [R-1]

NO.	DATE	REVISION	BY
4	3-3-69	END STIFFENER	D.C.C.
3	2-21-69	AS NOTED	G.D.C.
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	G.D.C.

REF. DRWG.

7-A81-34	1-6-68
7-A81-52	2-15-68
7-A84-14	1-3-68
7-A81-54	11-25-68
7-A81-53	7-22-68
7-A83-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/8"	22'-10 1/8"	36'-2 1/8"	49'-6 1/8"	5'-2 1/8"

TRUSS DESIGNATION	[illegible]	BOTTOM CHORD LENGTH	[illegible]	[illegible]	CHORD PLATE	
C32T38-59075	A242	52'-10 1/2"	3 A242 1.14 / 3A A242 1.14	14	A36 6 1/2"x1/2"	48'-10"

COLUMN END

Es END	TRUSS DESIGNATION	[illegible]	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (3 REQ'D)	DOUBLE STRUT MK	TYPE STEEL	DIA.	LENGTH	CHORD PLATE (2) MK	TYPE STEEL	SIZE	LGTH
	C32T38-59075	[illegible]	DS1	A242	1.14	8'-3 1/8"	DS3a	A242	.92	2'-6 3/4"	DS2	A242	.75	2'-4 7/8"	CP31	A36	6 1/2"x.50	1'-1 7/8"

CORE END

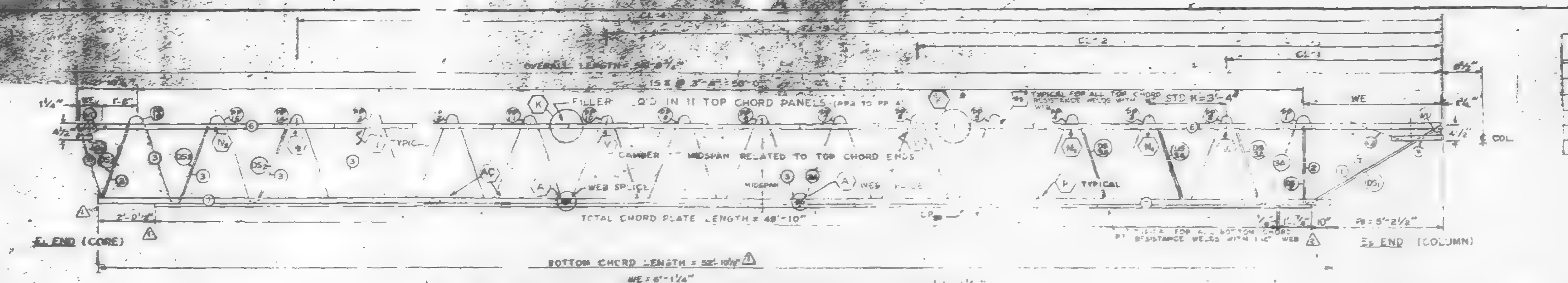
Ec END	TRUSS DESIGNATION	BEARING ANGLE	WEv	DOUBLE STRUT	DOUBLE STRUT	END STIFFENER (4)	WEB "V"	WEB "N-V"
	C32T38-59075	9V A242 2"x1 1/2"x.37" 0'-10"	1'-1"	DS4 A242 1.14 2'-8 3/4"	[illegible]	A242 1.14 [illegible]	[illegible]	8 A242 1.14 [illegible]

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T38 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

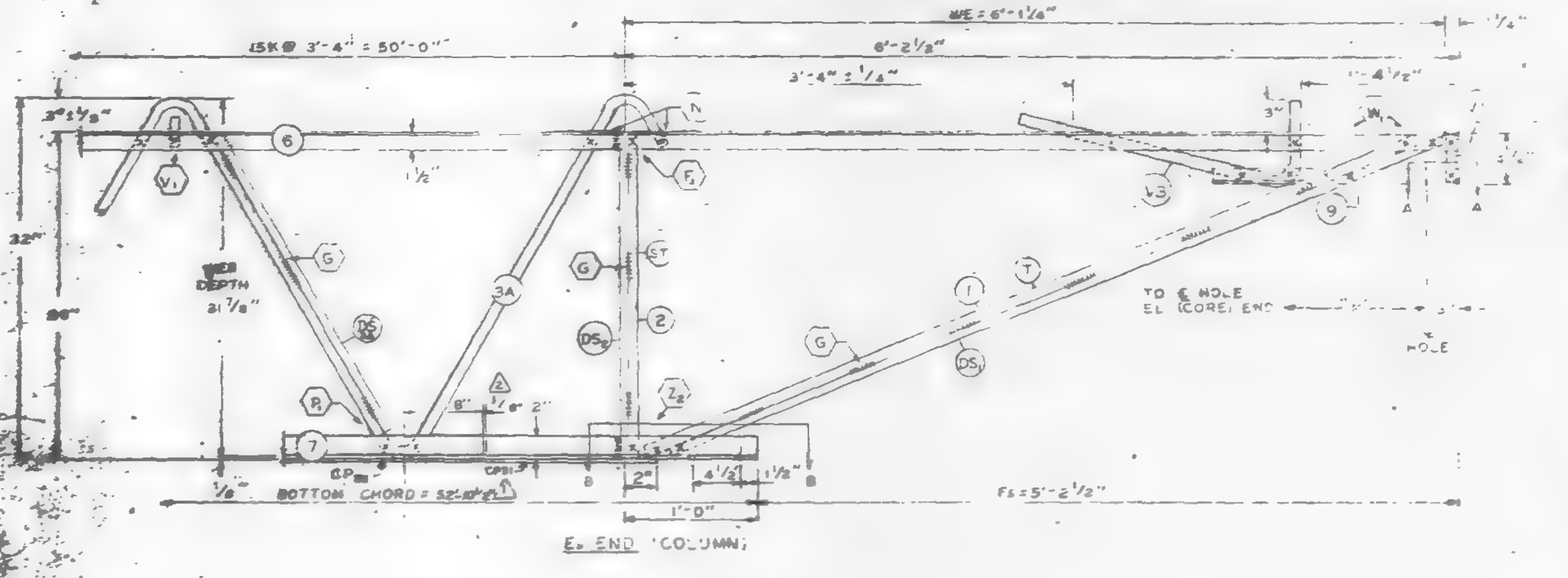
[illegible] COMPANY

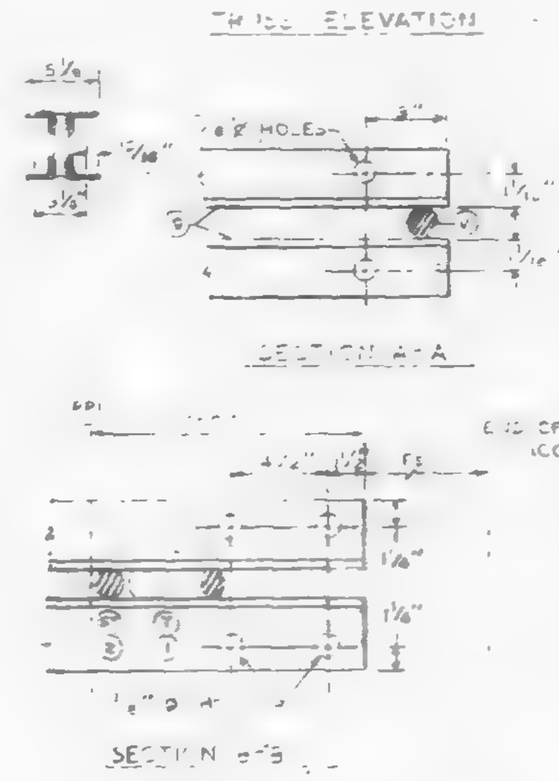
DESIGN DRAWING NO. 7-A81-34
James White 3/10/69
DATE JAN 21, 1969
JAN 21, 1969
LACLEDE STEEL CO.
CONTRACT NO. 221
SHEET ST 238



FABRICATION REQUIREMENTS

	DESIGN	
CAMBER AT MIDSPAN	[illegible]	[illegible]
DESIGN DEPTH	[illegible]	[illegible]
PANEL "K"	3'-4	± 1/8"
OVERALL LENGTH	59'-0¾	± 3/8"
WEB DEPTH	31 7/8"	±

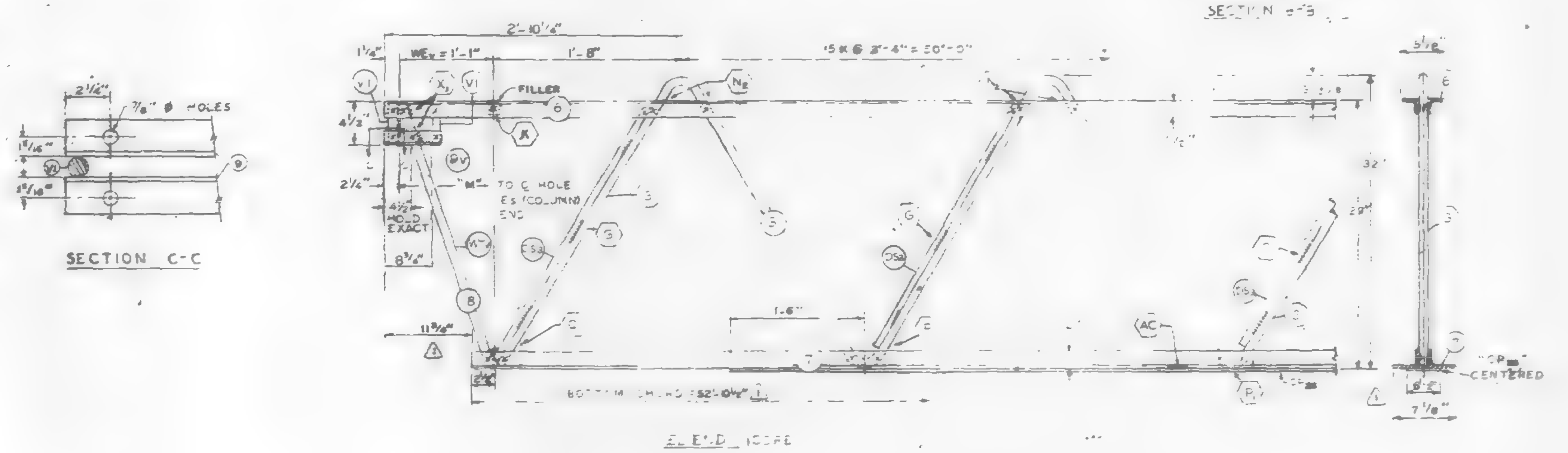




ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST287.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST245 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS [illegible] NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie. [R-1]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM [illegible] END IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.



NO.	DATE	REVISION	BY
2	2-18-69	AS NOTED	T.M.C.
1	1-31-69	AS NOTED	B.A.C.

REF. DWG.

7-ABI-34	1-21-69
7-ABI-52	2-18-69
7-ABI-53	1-3-69
7-ABI-54	[illegible]
7-ABI-53	7-23-68
7-ABI-70	[illegible]

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD				MAIN WEB "A"						CONNECTION FILLER			CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	[illegible] SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	[illegible]	[illegible]	MK	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T38-59075	6	A242	2"x1½"x[illegible]	[illegible]	[illegible]	A36	[illegible]	52'-10½"	3 / 3A	A242 / A242	1.14 / 1.14	56'-0¾" / 40'-11⅞"	3K @ 3'-4" = 10'-0" / [illegible] @ 3'-4" = 21'-8"	14	4	.14	1'-3"	[illegible]	A36	6"x[illegible]	48'-10"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6⅛"	22'-10⅛"	36'-2⅛"	49'-6⅛"	5'-2½"

COLUMN END

E₂ END	TRUSS DESIGNATION	BEARING ANGLES					[illegible]			[illegible]						DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT				CHORD PLATE			
		MK	TYPE STEEL	CHORD SIZE	[illegible]	[illegible]	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH (3 REQ'D)	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
	C32T38-59075	9	A242	2"x1½"x.37"	[illegible]	6'-[illegible]¼"	A242	.14	6'-3⅛"	A242	.14	[illegible]-4⅞"	A242	.14	[illegible]-4⅞"	DS₁	A242	1.14	6'-3[illegible]"	DS₂	A242	.92	2'-6¾"	DS₂	A242	.75	2'-4⅞"	CP	A36	6½x.50	[illegible]

CORE END

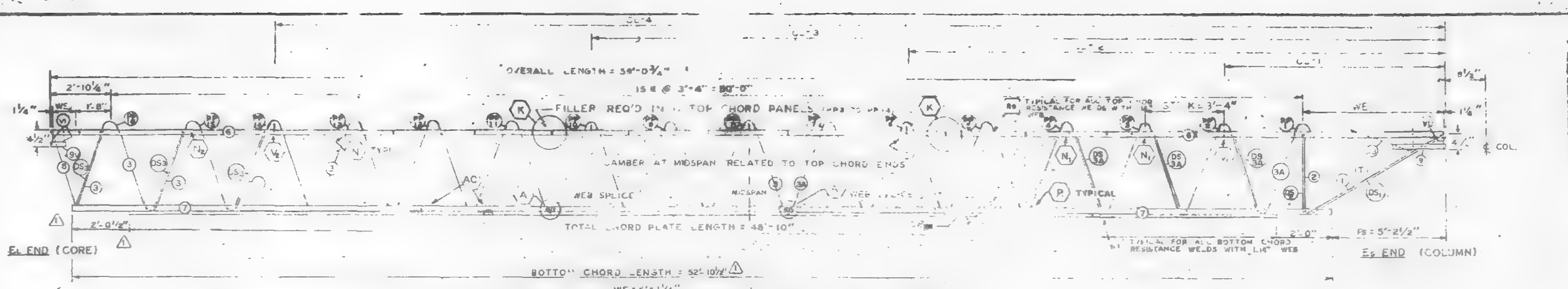
E₁ END	TRUSS DESIGNATION	BEARING ANGLE				WEV	DOUBLE STRUT				DOUBLE STRUT			END STIFFENER			WEB "WUV"				WEB "WTY"				
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH (3 REQ'D)	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	[illegible]	DIA	LENGTH
	C32T38-59075	9V	A242	2"x1½"x.37"	0'-10"	1'-1"	DS₂	A242	1.14	2'-6¾"	—	—	—	A242	1.14	4⅞"	—	—	—	—	8	A242	1	1.14	2'-6¼"

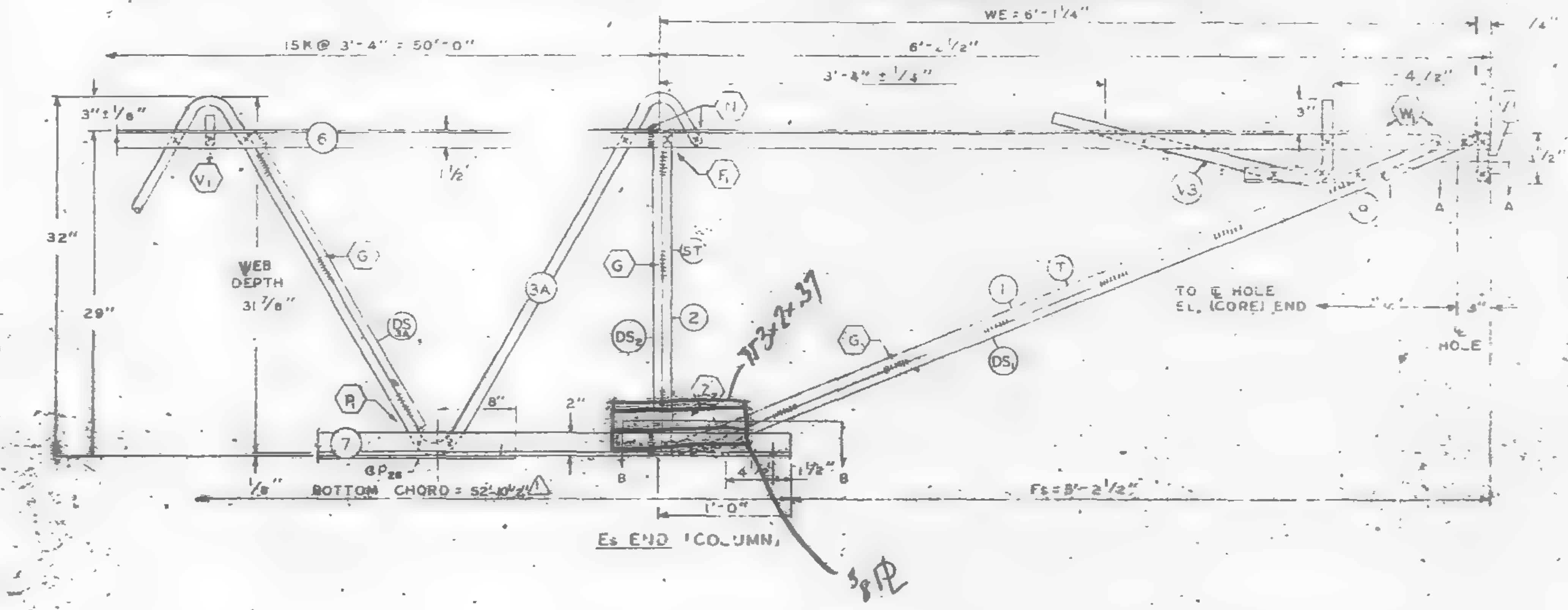
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T38 59'-0¾" OVERALL
WORLD TRADE CENTER TOWERS A-B

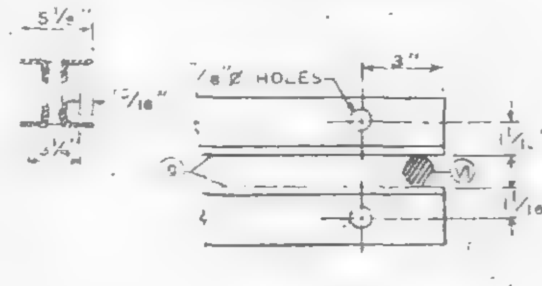
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-ABI-34	PLATE
APPROVED FOR FABRICATION FOR P.O.N.Y.A. DATE [illegible]	DRAWN BY [illegible] DATE JAN. 21, 1969	
APPROVED FOR FABRICATION FOR FABRICATOR BY ___ DATE ___	CHECKED BY: T.M.CHURA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEPT.
DETAILED BY LACLEDE STEEL CO.	FABRICATION CONT NO W.T.C. 221	SHEET NO. ST 238

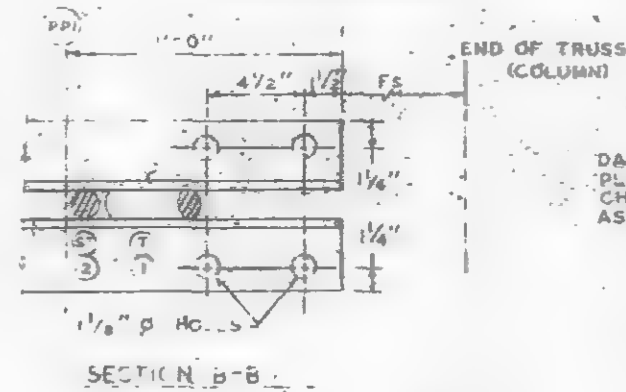




TRUSS ELEVATION



SECTION A-A

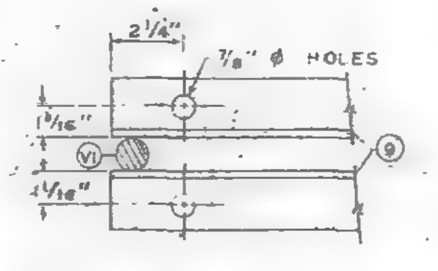


SECTION B-B

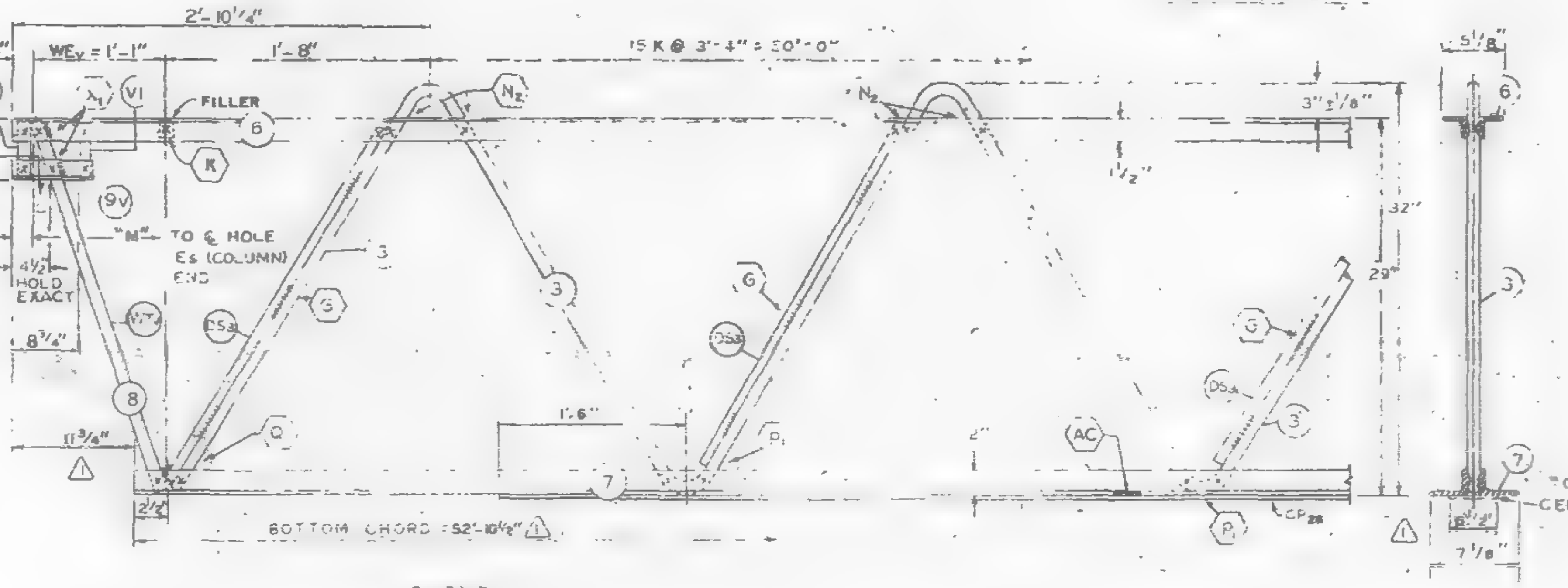
ALL PANEL POINTS RESISTANCE WELDED (x)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST288.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST29_ FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., R-1

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 228.00.



SECTION C-C



EL END (CORE)

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1/8"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4	± 1/8"
OVERALL LENGTH	5[illegible]	± 3/8"
WEB DEPTH	31 7/8"	± 1/[illegible]

NO.	DATE	REVISION	BY
1	1-31-69	AS NOTED	G.B.C.

REF. DRWG.

7-AB1-34	1-6-69
7-AB1-52	2-15-69
7-AB4-14	1-8-68
7-AB1-54	11-25-68
7-AB1-53	7-22-68
7-AB3-70	11-25-68

PAINT

LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF W	FILLER MK	DIA	CONNECTION FILLER MK	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	"W" % HOLES
C32T38-59075	6	A242	2"x1 1/2"x.37	[illegible]	[illegible]	A36	2"x2"x.37"	52'-10 1/2"	3 3A	A242 A242	1.14 1.14	56'-0 3/4" 40'-11 7/8"	9K @ 3'-4" = 30'-0" 6 1/2 K @ 3'-4" = 21'-8"	[illegible]	1.14	4	1.14	0'-3"	CP28	A36	6 1/4"x1/4"	48'-10"	[illegible]

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	BEARING STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (3 REQ'D)	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T38-59075	9	A242	2"x1 1/2"x.25 (37)	0'-10"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	[illegible]	A242	1.14	[illegible]-4 7/8"	A242	1.14	0'-4 3/8"	[illegible]	1.14	2'-9 1/2"	DS1	A242	1.14	6'-3 1/8"	DS2A	A242	.92	2'-6 3/4"	DS2	A242	.75	2'-4 7/8"

CORE END

EL END TRUSS DESIGNATION	BEARING ANGLE MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH (3 REQ'D)	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH (2 REQ'D)	WEB "WCV" MK	TYPE STEEL	DIA	LENGTH	WEB "WTV" MK	TYPE STEEL	DIA	LENGTH
C32T38-59075	9V	A242	2"x1 1/2"x.37"	0'-10"	1'-1"	DS3	A242	1.14	2'-6 3/4"	—	—	—	—	A242	1.14	4 3/8"	—	—	—	—	8	A242	1.14	2'-6 [illegible]"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

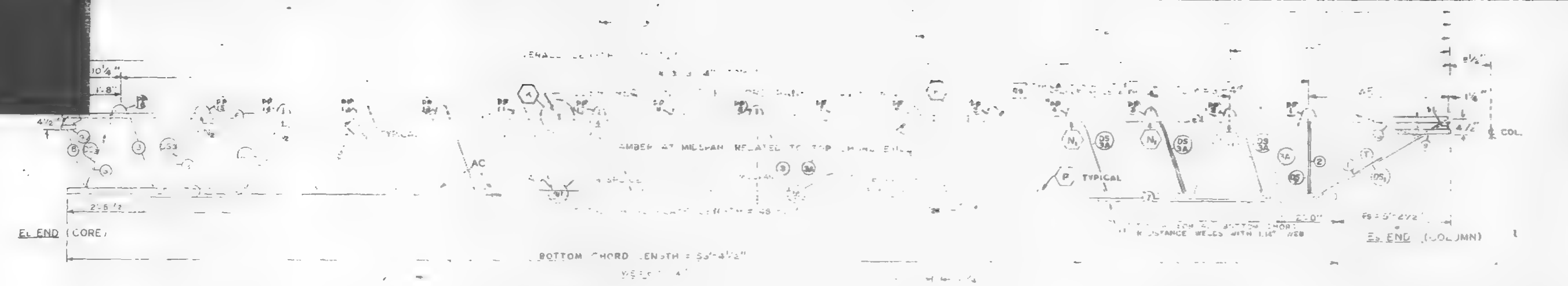
SKILLING - HELLE
CHRISTIANSEN - ROBERTSON
Structural & Civil Engineers
X
2/19/69 SK

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T38 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

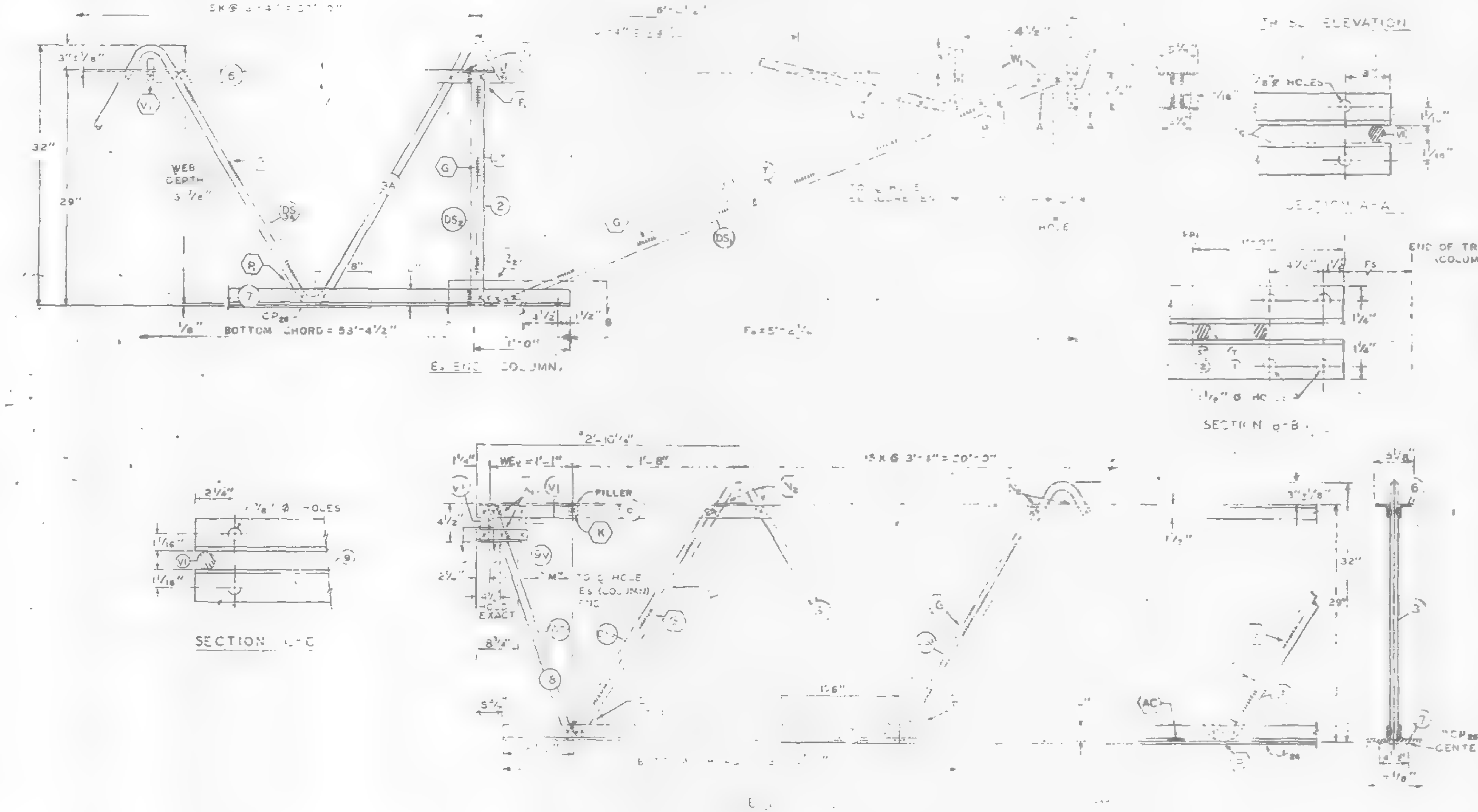
FABRICATION BY LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS	DESIGN DRAWING NO. 7-AB1-34	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A. DATE	DRAWN BY [illegible] DATE JAN 21, 1969	
APPROVED FOR FABRICATION BY LACLEDE STEEL CO. DATE	CHECKED BY T M CHURA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A CARL WEBER	FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST 238



FABRICATION REQUIREMENTS

	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2 1 8"	± 3/8"
DESIGN DEPTH	29"	± 1/
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-0 3/4"	± 3/8"
WEB DEPTH		± 1/4



ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS
AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290, ST291, ST292, ST293, AND ST288.

CHORD PLATE DETAILS SHOWN ON SHEET ST288.
SEE SHEET ST249 FOR V1 & V3 DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [R-1]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD ASSEMBLY BY CONTRACT W.T.C. 223.00.

NO.	DATE	REVISION	BY

VOID

REF. DRWG.

7-ABI-34	1-6-68
7-ABI-52	2-15-68
7-AB4-14	1-3-68
7-ABI-54	11-25-68
7-ABI-5	-22-68
7-AB3-70	11-25-68

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

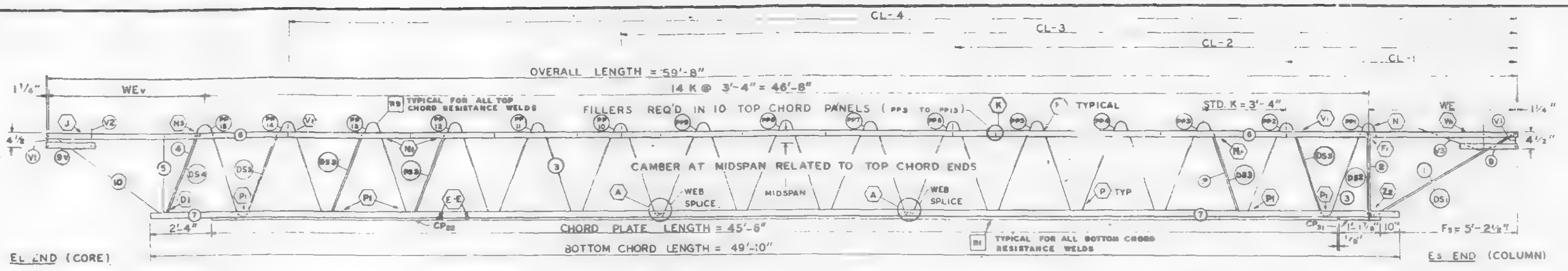
DOUBLE STRUT				DOUBLE STRUT				DOUBLE STRUT			
MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH (3 REQ'D)	MK	TYPE STEEL	DIA.	LENGTH
DS_1	A242	1.14	6'-3 1/8"	DS_{3A}	A242	.92	2'-6 3/4"	DS_2	A242	.75	2'-4 7/8"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER N.Y.
FOR
THE PORT OF NEW YORK AUTHORITY

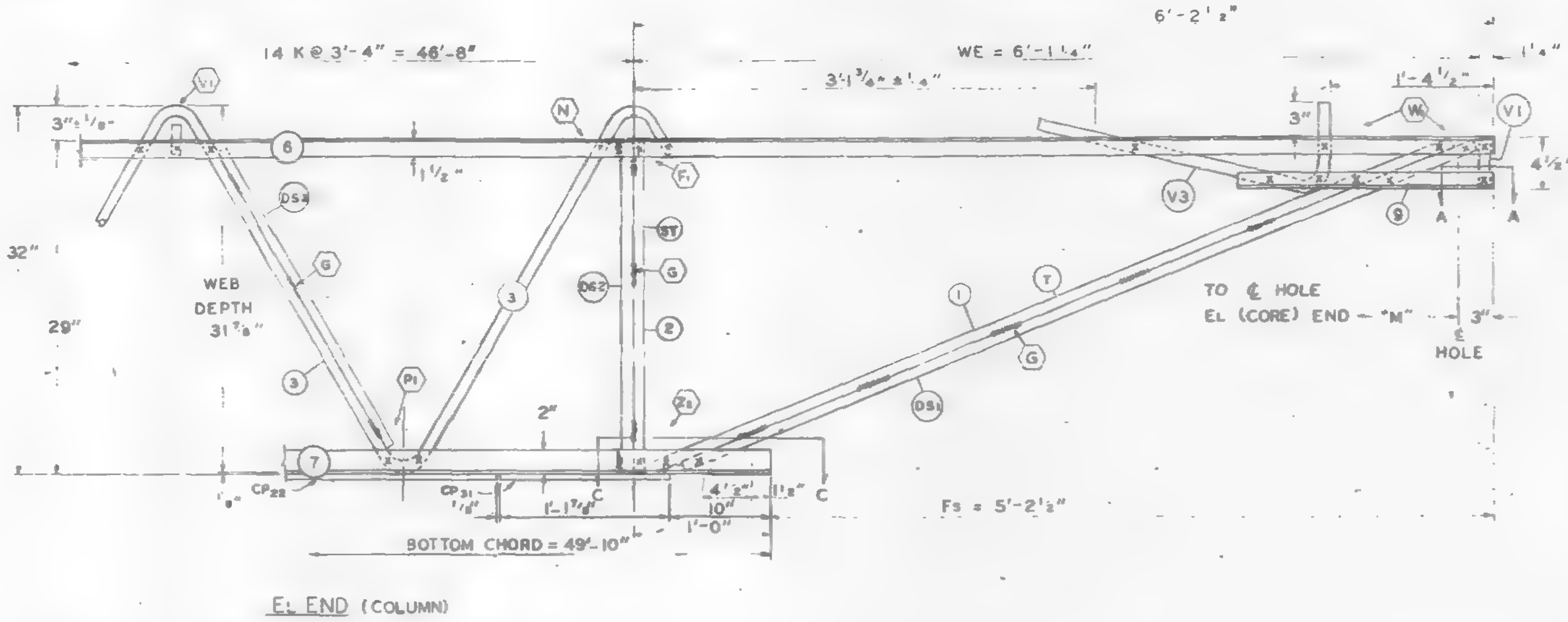
FLOOR TRUSS C32T38 59'-0 3/4" OVERALL
WORLD TRADE CENTER TOWERS A-B

FABRICATION BY LACLEDE STEEL COMPANY
FABRICATED AT MADISON, ILLINOIS
DESIGN DRAWING NO. 7-ABI-34
DATE JAN 21, 1969
CHECKED BY
DATE JAN 21, 1969
LACLEDE STEEL CO.
DETAILED BY A. EARL WEBER
FABRICATION CONT. NO. 221
SHEET ST 238

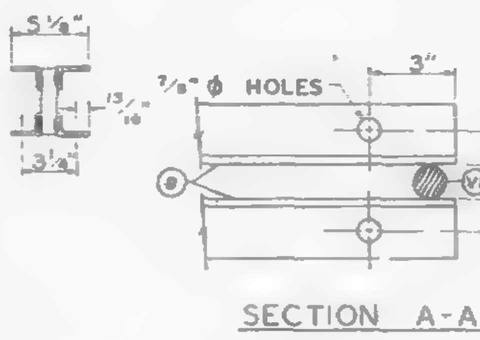
FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-8"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

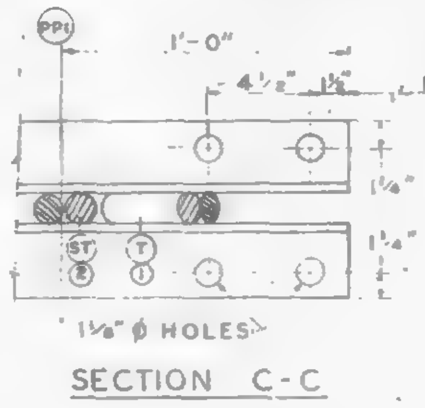


TRUSS ELEVATION



EL END (COLUMN)

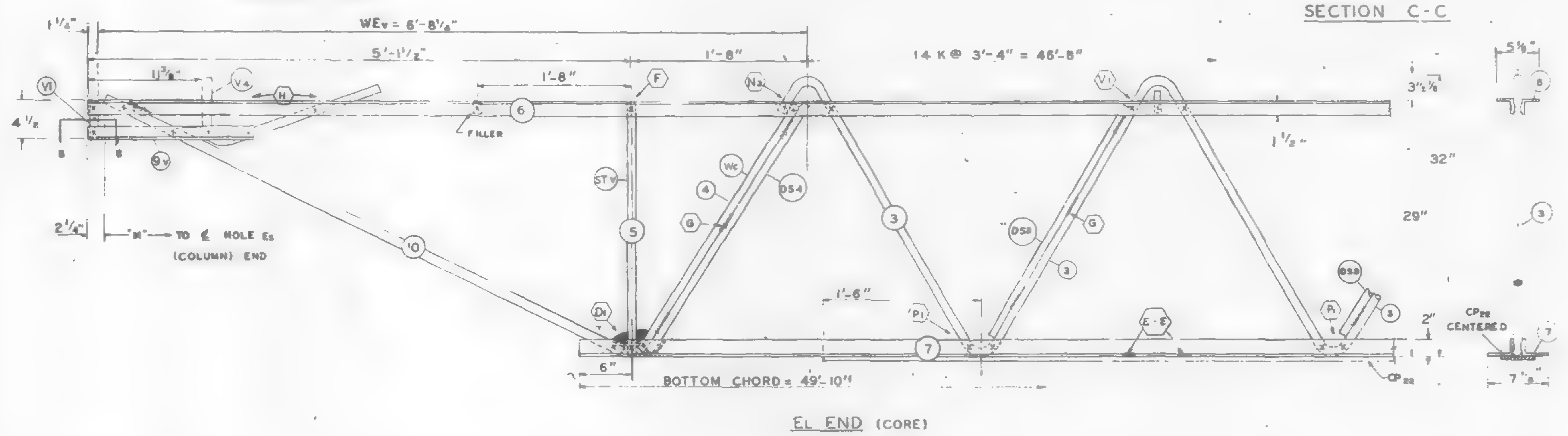


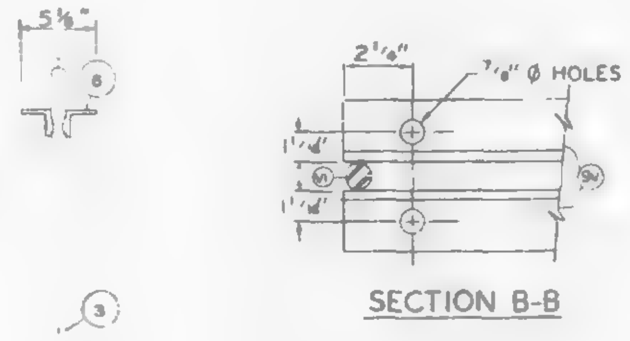


ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 - ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3. DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie. [R1]

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS.

VOID





EL END (CORE)

NO.	DATE	REVISION	BY

REF DRWG		
	7-A81-35	1-8-67
	7-A84-50	6-1-68
	7-A83-41	1-8-69
	7-A81-55	7-22-68

Truss length not req'd

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF K	FILLER NO	DIA	"M" C/C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH
C32T39C 598	6	A242	2"x1½"x37	59'-8"	7	A36	3"x2"x37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	59'-2¾"	4	1.14	3"	CP22	A36	6½"x½"	45'-6"	DS2	A242	.75	2'-4'	CP31	A36	6½"x½"	1'-1⅞"

COLUMN END

Es END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA.	LENGTH	MK. V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH.
C32T39C-598	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅝"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	1.14	6'-3½"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-0½"	36'-2½"	49'-6½"	2½"

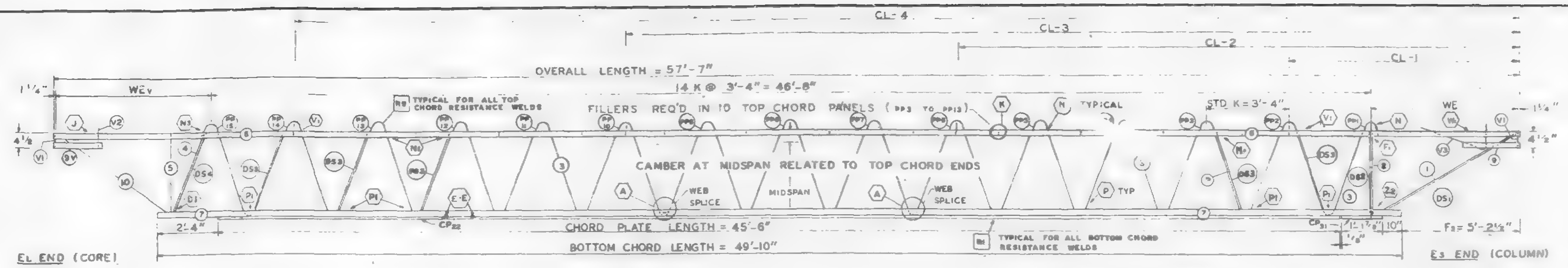
CORE END

EL END TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA.	LENGTH	END STIFFENER MK. V1 TYPE STEEL	DIA	LENGTH	MK. V2 TYPE STEEL	DIA.	LENGTH	MK. V4 TYPE STEEL	DIA.	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(S) DOUBLE STRUT REQ'D MK	TYPE STEEL	DIA	LENGTH
C32T39C-598	9	A242	2"x1½"x.37	1'-6"	6'-8¼	10	A242	1.14	5'-5½"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	—	—	—	A242	1.14	2'-2½"	4	A242	1	1.14	2'-0"	DS4	A242	.75	2'-9½"	—	—	—	—	DS3	A242	.92	2'-6¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

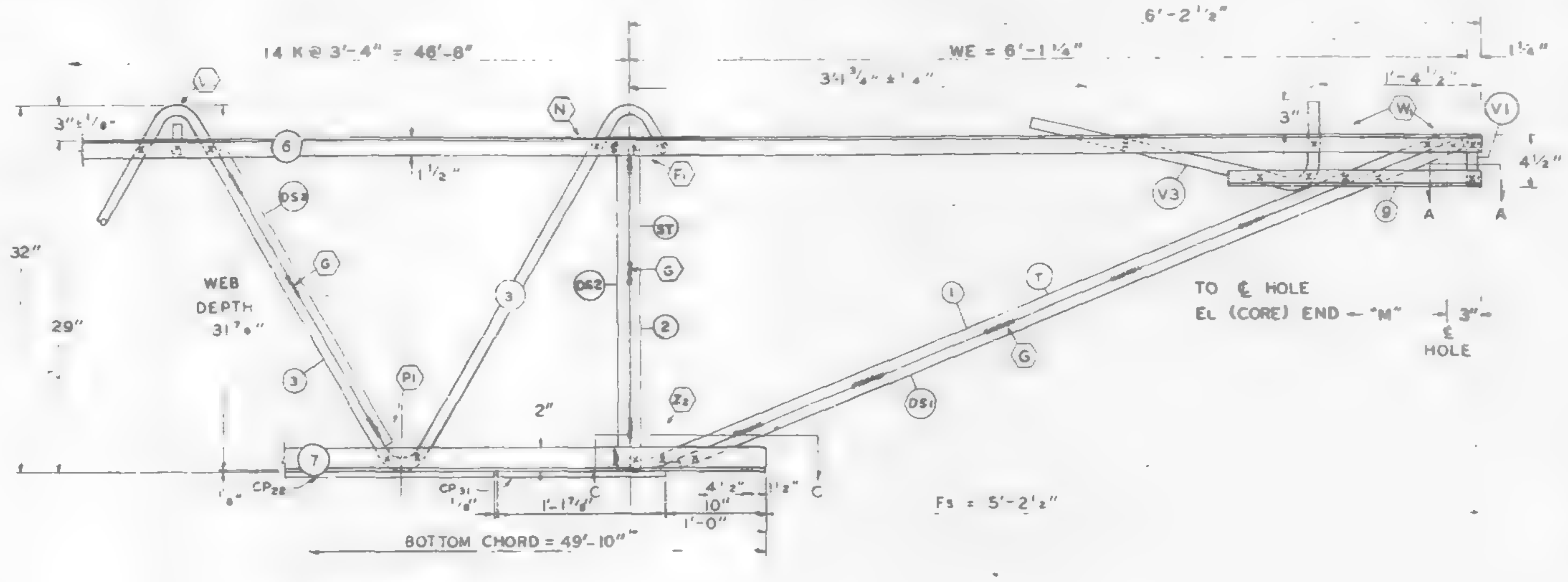
FLOOR TRUSS C32T39C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO.: 7-A81-35
PLATE:
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A. DATE:
DRAWN BY: DATE: MAY 8, 1969
APPROVED FOR FABRICATION BY: LACLEDE STEEL CO. FOR FABRICATOR DATE:
CHECKED BY: T.H. DATE: MAY 6, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST239C

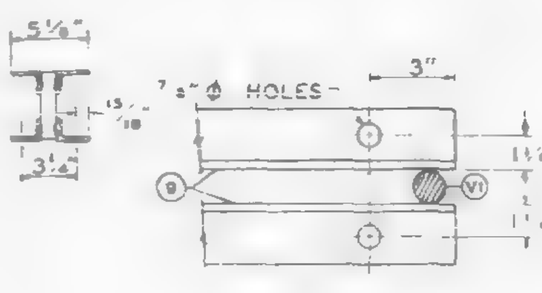


TRUSS ELEVATION

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	20"	± 1/8"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-7"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

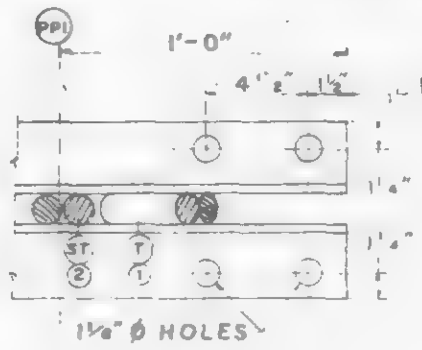


EL END (COLUMN)



SECTION A-A

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1]

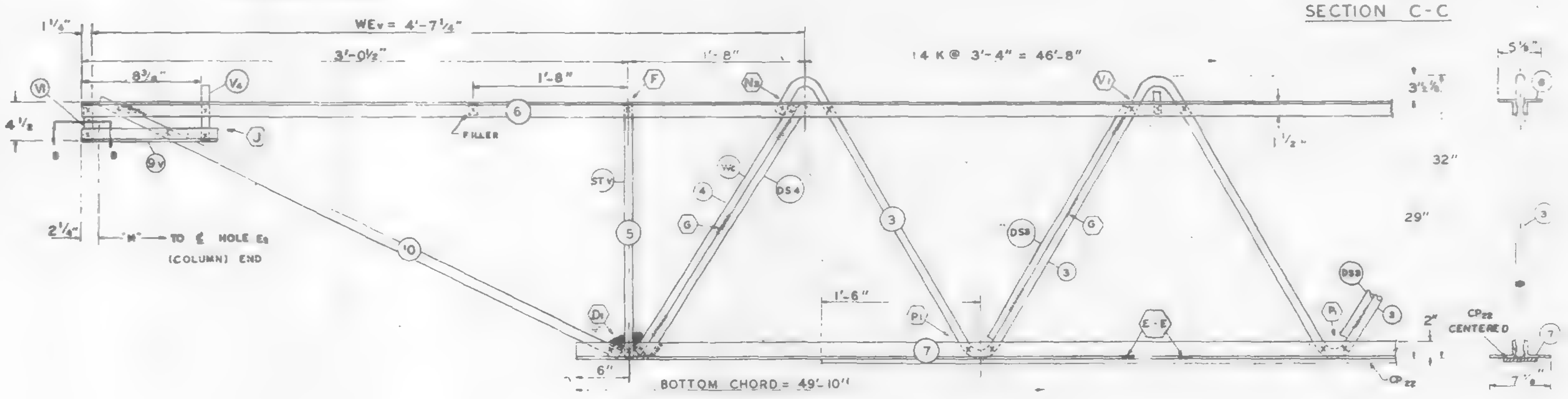


SECTION C-C

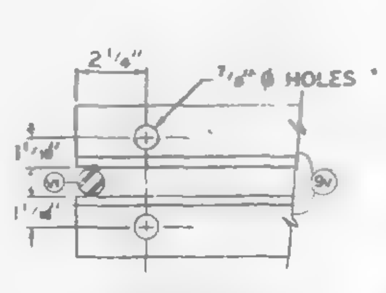
DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON
Structural & Civil Engineers
6/4/69 SK

VOID



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

REF DRWG.

7-AB1-35	1-8-67
7-AB4-50	8-1-68
7-AB3-41	1-8-68
7-AB1-53	7-22-68

Truss length not req'd

PAINT
LACLEDE ELECTROCOAT
RED NO 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" c/c HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO	DIA.	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T39P 577	6	A242	2"x1½"x37	57'-7"	7	A36	3"x2"x37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-1¾"	4	1.14	3"	CP22	A36	6½"x½"	45'-6"	DS2	A242	.75	2' 4⅞"	CP31	A36	6½"x½"	1'-1⅞"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32T39P 577	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	1.14	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2¼"

CORE END

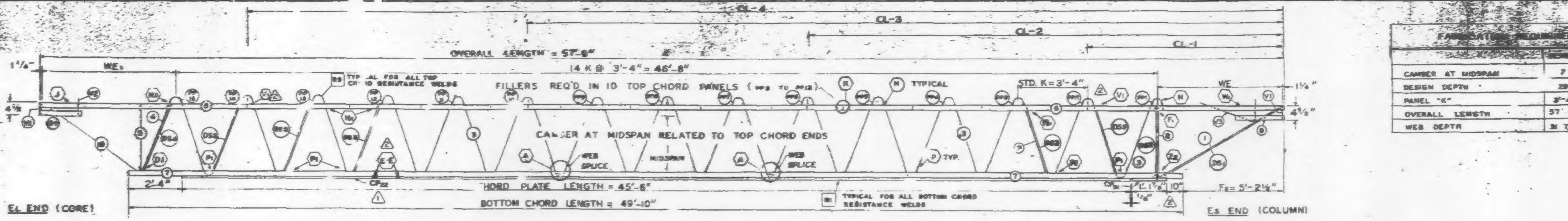
EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(S) DOUBLE (REQD)			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T39P 577	9	A242	2"x1½"x.37	10¼"	4'-7½"	10	A242	1.14	3'-8½"	5	A242	1.14	2'-4⅛"	A242	1.14	4⅜"	A242	1.14	7⅜"	—	—	—	4	A242	1	1.14	2'-9		A242	.75	2'-9½"	—	—	—	—	DS3	A242	.92	2'-5¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

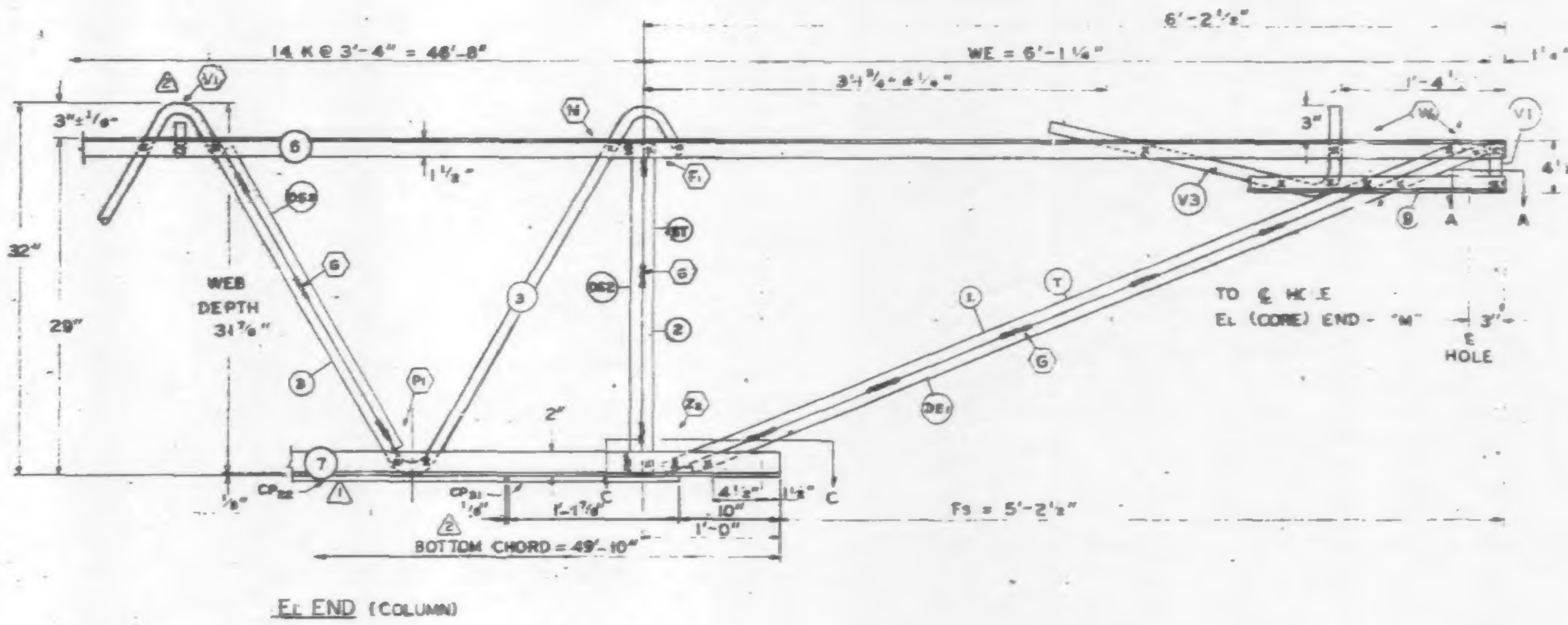
FLOOR TRUSS C32T39P 57'-7" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY
FABRICATED AT: MADISON, ILLINOIS
DESIGN DRAWING NO. 7-AB1-35
PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A. DATE
APPROVED FOR FABRICATION BY. ______ FOR FABRICATOR DATE.
DRAWN BY: E.A. DATE: MAY 6, 1969
CHECKED BY: T.M.SHUBA DATE: MAY 6, 1969
IN CHARGE OF PROD. DEV.
DETAILED BY:
FABRICATION CONT. NO. W.T.C. 221
SHEET NO. ST230P

FABRICATION REQUIREMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	7"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 4"
OVERALL LENGTH	57' 9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

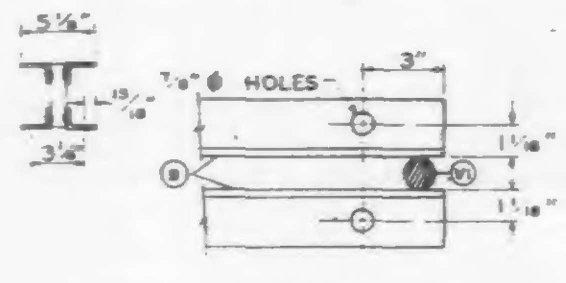


TRUSS ELEVATION

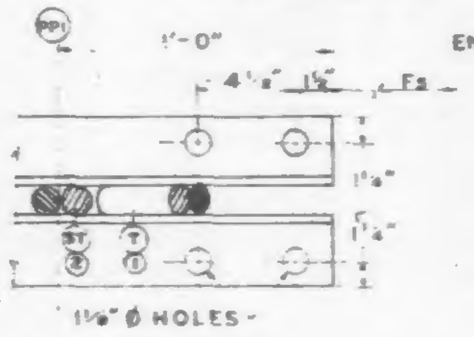


EL END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS, i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, i.e. [R1]

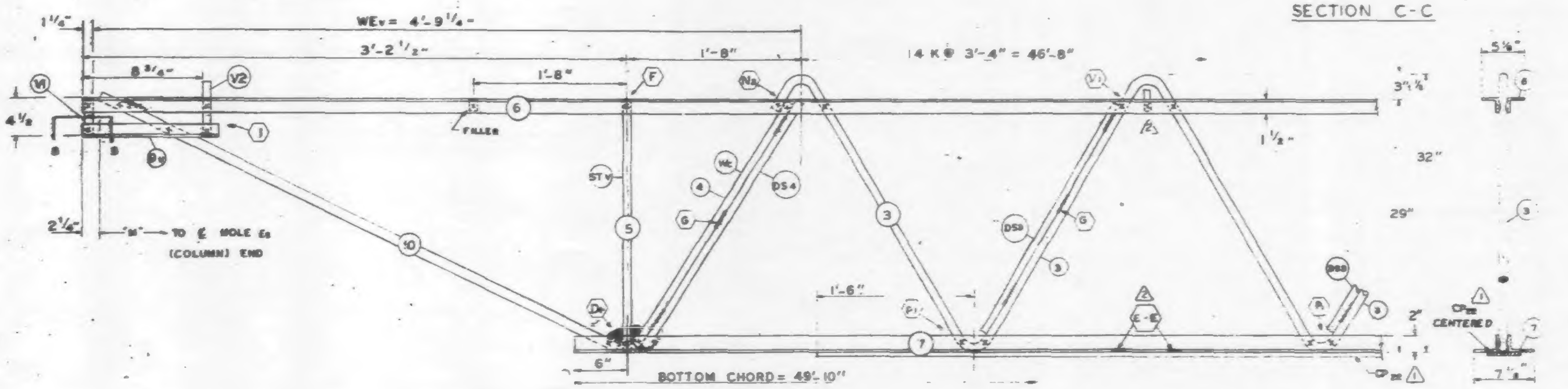


SECTION A-A

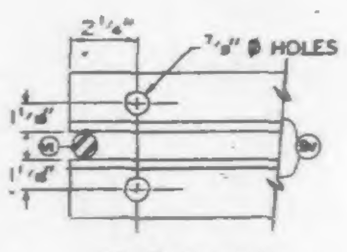


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL. END) IN FIELD. ASSEMBLY BY OTHERS.



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
2	2-18-69	WELD DETAILS ... BEARING ANGLE SIZE	L.J.H.
1	1-31-69	AS NOTED	G.B.C.

REF DWG.

7-AB1-35	4-6-67
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-58	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT				CHORD PLATE			
	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	CHORD SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	NO. OF K	NO.	DIA.		NO.	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	SIZE	LENGTH
C32T39N-579	6	A242	2"x1½"x.37	57'-9"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"	4	1.14	3"	CP22	A36	6½"x½"	45'-6"	DS2	A242	.75	2'-4⅞"	CP31	A36	6½"x½"	1'-1⅞"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK.			DOUBLE STRUT			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LGTH.
	C32T39N-579	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅝"	A242	1.14	4⅜"	A242	.4	2'-9½"	[illegible]	A242	1.14	[illegible]

CHECK DIMENSION FOR TRUSS FAB.

LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(3) DOUBLE STRUT (REQD)			
		MK.	TYPE STEEL	CHORD SIZE	LENGTH		MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	PCS	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH	MK.	TYPE STEEL	DIA.	LENGTH
	C32T39N-579	9	A242	2"x1½"x.37	10"	4'-9¼"	10	A242	1.14	3'-10"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜	A242	1.14	7⅝	—	—	—	4	A242	1	1.14	2'-9½"	DS4	A242	.75	2'-9½"	—	—	—	—	DS3	A242	.92	2'-8¾"

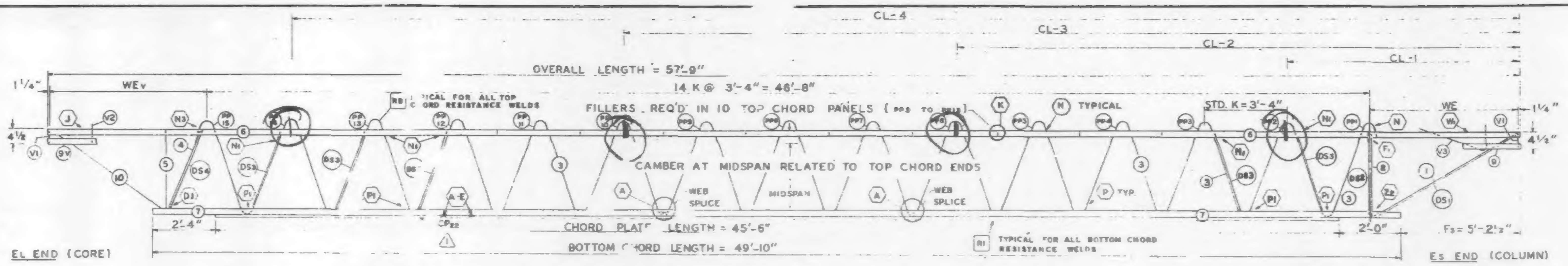
STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T39N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

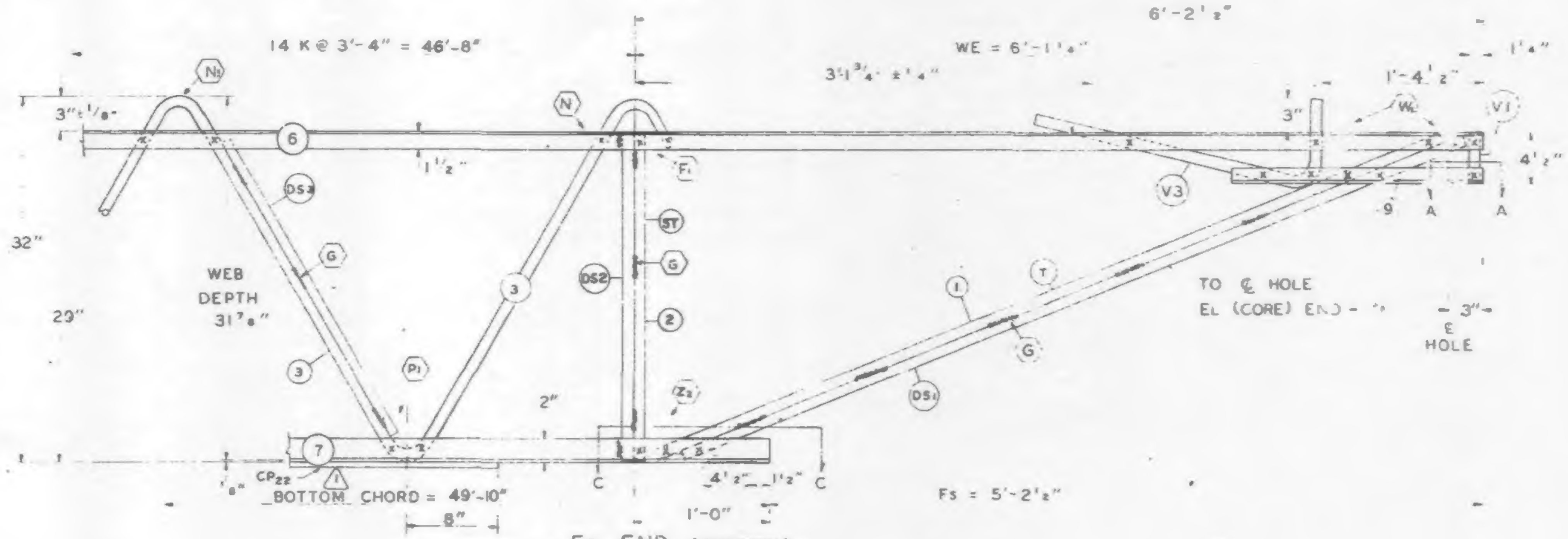
FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB-36	PLATE
APPROVED FOR FABRICATION BY ____ FOR P.O.N.Y.A.	DATE	DRAWN BY: ____ DATE: JAN. 20 1969	
APPROVED FOR FABRICATION BY ____ FOR FABRICATOR	DATE	CHECKED BY: ____ DATE: JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED: LACLEDE STEEL CO.		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST239N

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	57'-9"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

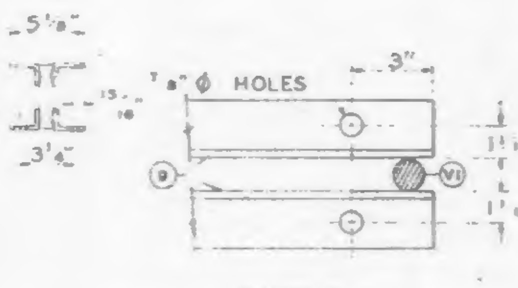


TRUSS ELEVATION

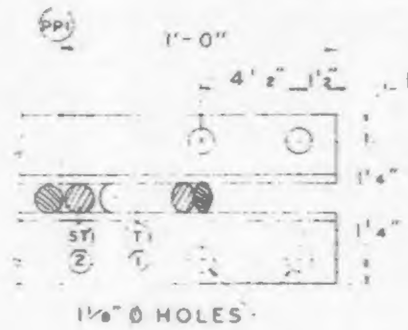


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST289.
SEE SHEET ST295 FOR V1, V2, V3. DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM ie. [R1]

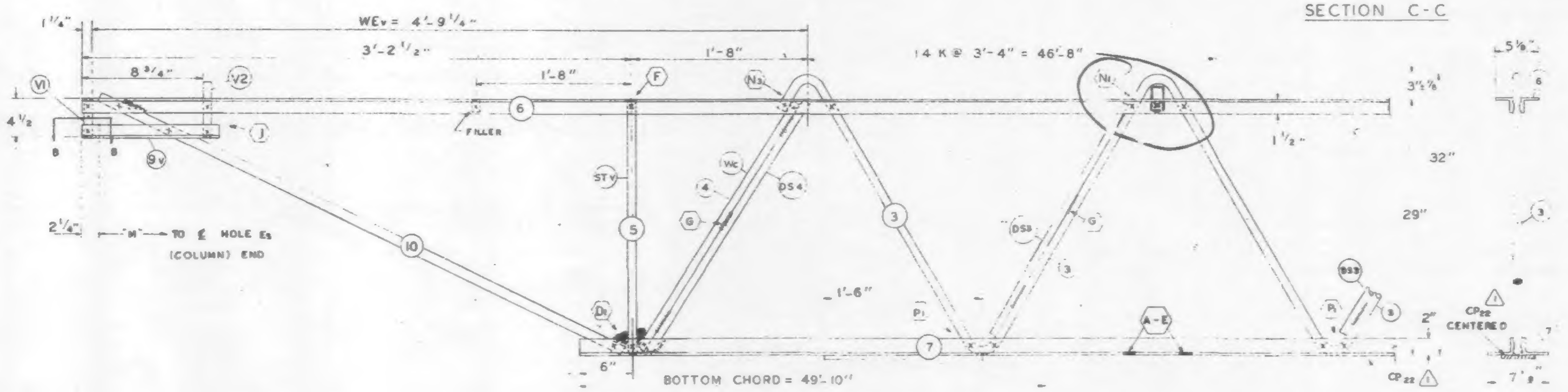


SECTION A-A

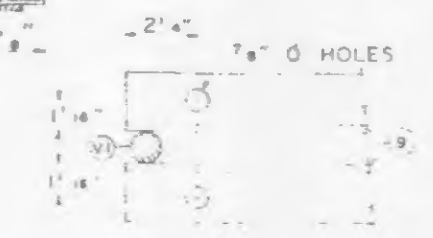


SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY
1	1-31-69	AS NOTED	G.D.C.

REF DRWG.

7-AB1-35	1-8-67
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	BOTTOM CHORD TWO ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	MAIN WEB "W" MK	TYPE STEEL	DIA	LENGTH	NO. OF K	FILLER NO	DIA	"M" C-C HOLES	CONNECTION FILLERS NO	DIA	LENGTH	CHORD PLATE MK	TYPE STEEL	SIZE	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH
C32T39N-579	6	A242	2"x1½"x37 (.37)	57'-9"	7	A36	3"x2"x37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3¾"	4	.14	4	CP22	A36	6½"x½"	45'-6"	DS2	A242	.75	2'-4⅞"

COLUMN END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WE	DIAGONAL "T" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "ST" STRUT MK	TYPE STEEL	DIA	LENGTH	END STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V3 TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LGTH.
Es END	C32T39N-579	9	A242	2"x1½"x25 (.37)	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	1.14	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB LOCATION OF TRANS TRUSS CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

2/19/69 SK

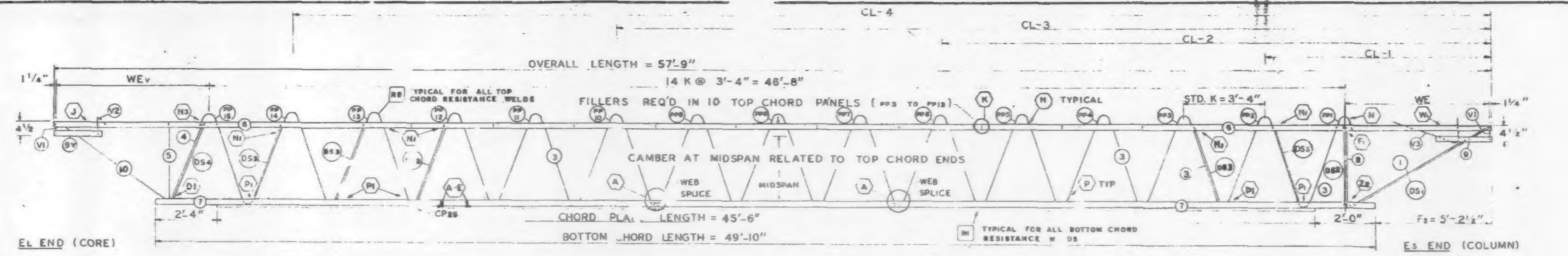
CORE END	TRUSS DESIGNATION	BEARING ANGLES MK	TYPE STEEL	CHORD SIZE	LENGTH	WEv	DIAGONAL "Tv" STRUT MK	TYPE STEEL	DIA	LENGTH	VERTICAL "STv" STRUT MK	TYPE STEEL	DIA	LENGTH	E. STIFFENER MK V1 TYPE STEEL	DIA	LENGTH	MK V2 TYPE STEEL	DIA	LENGTH	MK V4 TYPE STEEL	DIA	LENGTH	WEB "Wc" MK	TYPE STEEL	PCS	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	DOUBLE STRUT MK	TYPE STEEL	DIA	LENGTH	(5) DOUBLE (REQD) STRUT MK	TYPE STEEL	DIA	LENGTH
EL END	C32T39N-579	9	A242	2"x1½"x25 (.37)	10"	4'-9¼"	10	A242	1.14	3'-7⅝"	5	A242	1.14	2'-4⅛"	A242	1.14	4⅜"	A242	1.14	7⅝"	—	—	—	4	A242	1	1.14	2'-9½"	DS4	A242	.75	2'-9½"	—	—	—	—	DS3	A242	.92	2'-6¾"

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T39N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY LACLEDE STEEL COMPANY

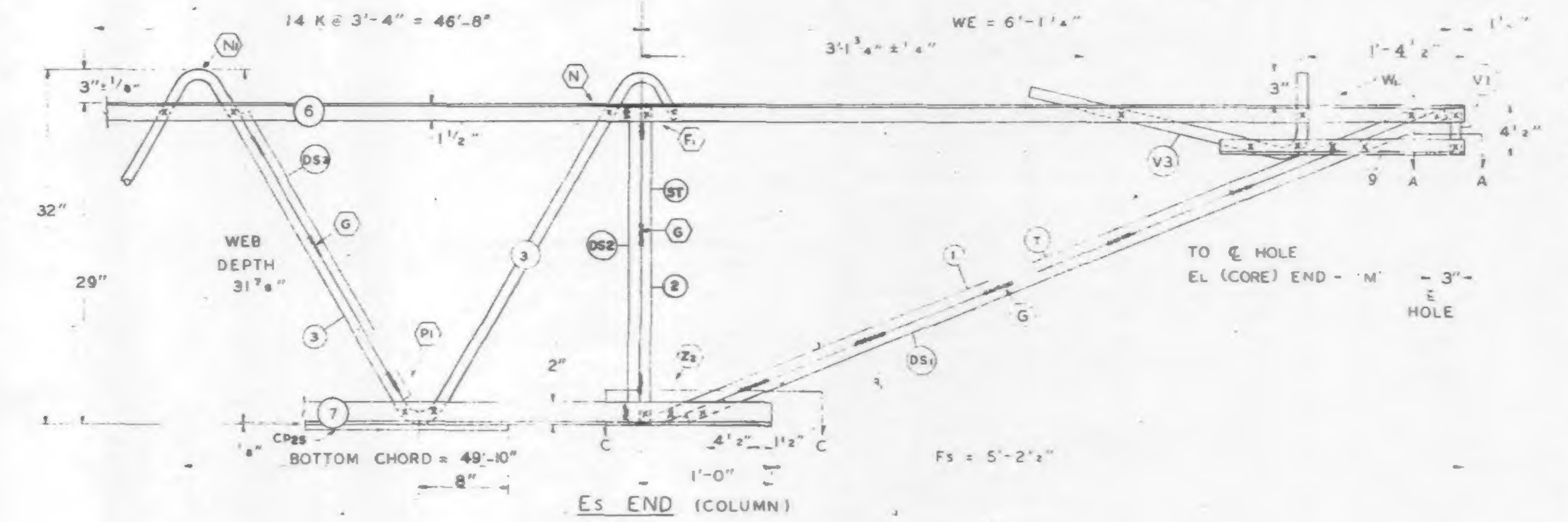
FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-35	PLATE
APPROVED FOR FABRICATION BY FOR PONYA	DATE	DRAWN BY L.A. DATE JAN 20 1969	
APPROVED FOR FABRICATION BY A C WEBER FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A C WEBER (LACLEDE STEEL CO stamp)		FABRICATION CONT NO. W T C 221	SHEET NO ST239N



EL END (CORE)

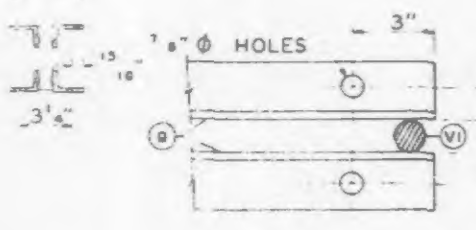
Es END (COLUMN)

TRUSS ELEVATION

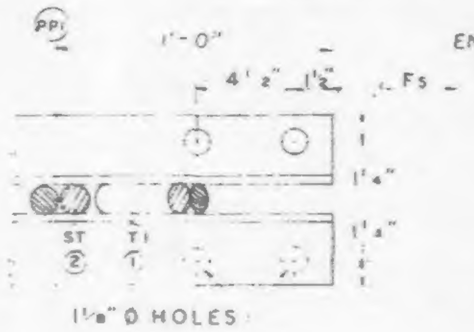


Es END (COLUMN)

ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES (▥)
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST289.
SEE SHEET ST295 FOR V1, V2, V3. DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS ie. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM, ie., [R1]



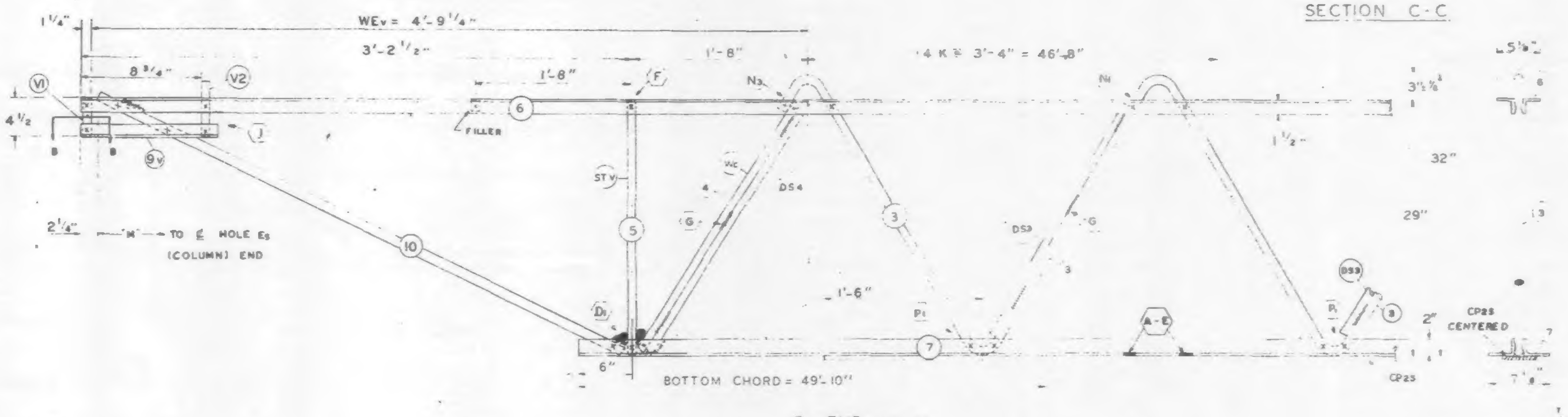
SECTION A-A



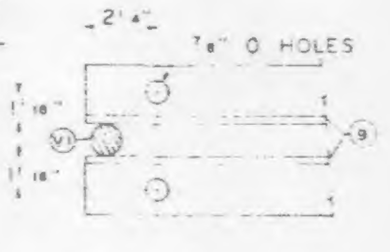
END OF TRUSS (COLUMN)

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS.

SECTION C-C



EL END (CORE)



SECTION B-B

Void

REF DRWG.

7-AB1-35	1-6-67
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

FABRICATION REQUIRMENTS	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2"	±.3 5"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	5'	± 3/8"
WEB DEPTH	31 7/8"	± 1/4

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C_C HOLES	CONNECTION FILLERS			CHORD PLATE				DOUBLE STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO	DIA		NO	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T39N-579	6	A242	2"x1 1/2"x37	57'-9"	7	A36	3"x2"x37	49'-10"	3	A242	1.14	88'-1 1/4"	14 @ 3'-4" = 46'-8"	11	1.14	57'-3 3/4"	—	—	—	CP25	A36	6"x.375	45'-6"	DS2	A242	.75	2'-4 7/8"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK V1			END STIFFENER MK V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32T39N-579	9	A242	2"x1 1/2"x25	2'-3"	6'-1 1/4"	1	A242	1.14	6'-3 1/8"	2	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A2[illegible]	1.14	2'-9 1/2"	DS1	A242	1.14	6'-3 1/8"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS

CL-1	CL-2	CL-3	CL-4	Fs
9'-6 1/2"	22'-10 1/2"	36'-2 1/2"	49'-6 1/2"	5'-2 1/2"

CORE END

EL END: TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK V1			END STIFFENER MK V2			END STIFFENER MK V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(5) DOUBLE (REQD) STRUT			
	MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
C32T39N-579	9	A242	2"x1 1/2"x25	10"	4'-9 1/4"	10	A242	1.14	3'-7 3/8"	5	A242	1.14	2'-4 7/8"	A242	1.14	4 3/8"	A242	1.14	7 5/8"	—	—	—	4	A242	1	1.14	2'-9 1/2"	DS4	A242	.75	2'-9 1/2"	—	—	—	—	DS3	A242	.92	2'-6 3/4"

PAINT
LACLEDE ELECTROCOAT
RED NO. 10001

STEEL TRUSS DETAILS
FOR
WORLD TRADE CENTER - N Y C
FOR
THE PORT OF NEW YORK AUTHORITY

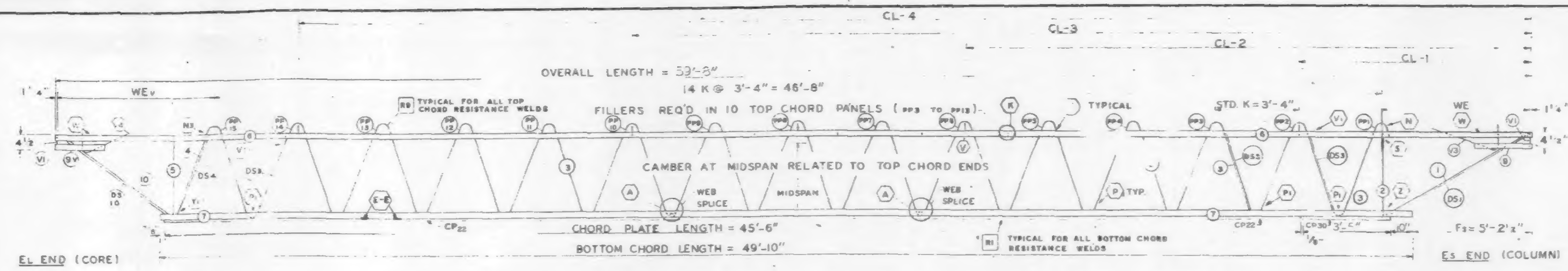
FLOOR TRUSS C32T39N 57'-9" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT MADISON, ILLINOIS		DESIGN DRAWING NO 7-AB1-35	PLATE
APPROVED FOR FABRICATION BY FOR P.O.N.Y.A.	DATE	DRAWN BY [illegible] DATE JAN 20 1969	
APPROVED FOR FABRICATION BY A.C. WEBER FOR FABRICATOR	DATE	CHECKED BY T.M.CHURA DATE JAN. 21, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY A.C. WEBER		FABRICATION CONT NO W.T.C. 221	SHEET NO. ST239N

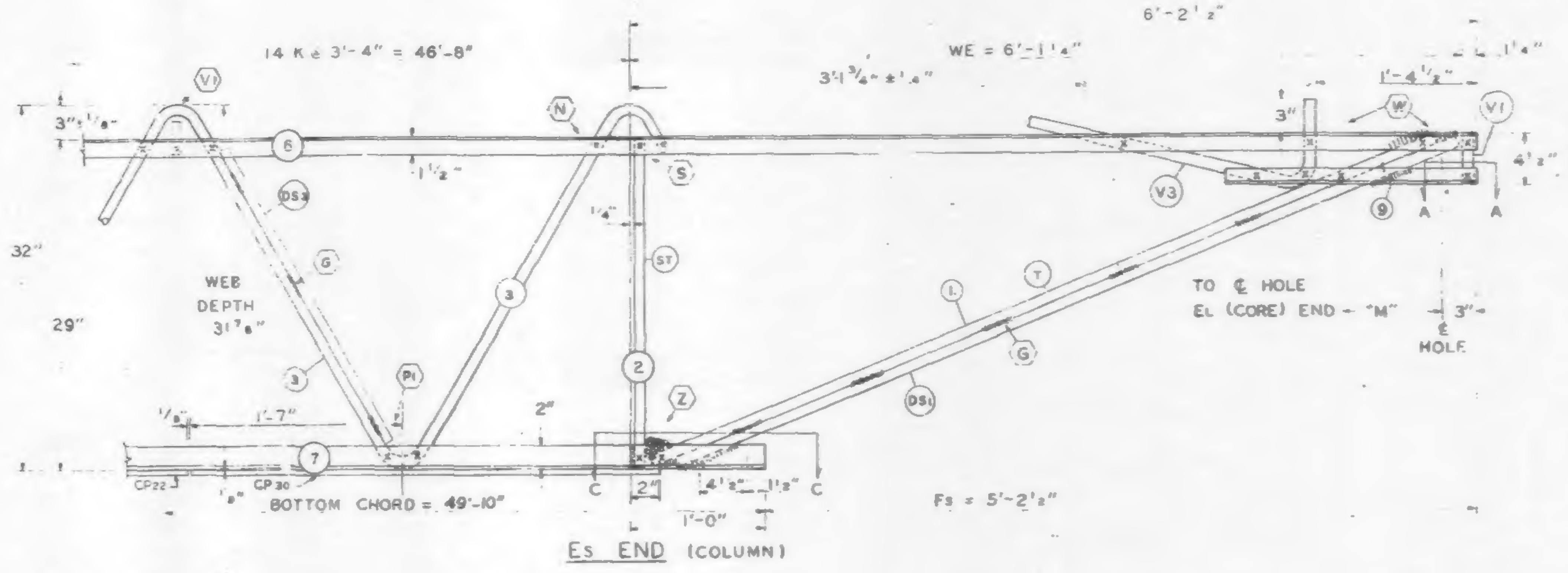
CL-4
CL-3
CL-2
CL-1

FABRICATION REQUIRMENTS		
	DESIGN	TOLERANCE
CAMBER AT MIDSPAN	2	± 3/8"
DESIGN DEPTH	29"	± 1/4"
PANEL "K"	3'-4"	± 1/4"
OVERALL LENGTH	59'-2"	± 3/8"
WEB DEPTH	31 7/8"	± 1/4"

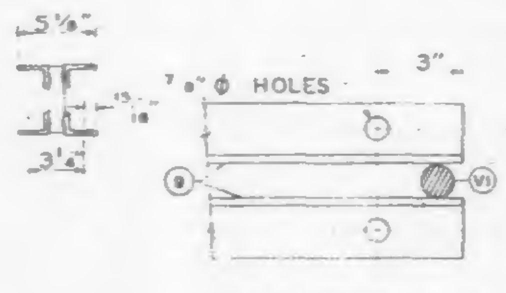


TRUSS ELEVATION

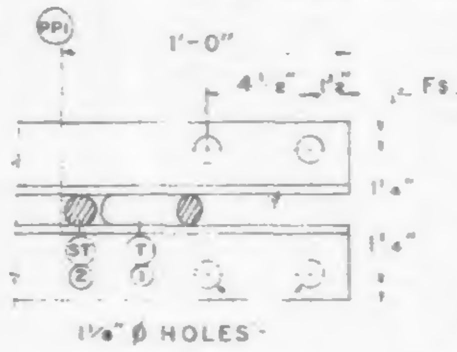
ALL PANEL POINTS RESISTANCE WELDED (X)
ARC WELDS INDICATED AT SHADED AREAS AND AT BOTTOM CHORD WEB SPLICES
ALL WELD DETAILS SHOWN ON SHEETS ST290 – ST294 AND ST286.
SEE SHEET ST295 FOR V1, V2, V3, DETAILS
LETTERS IN HEXAGON INDICATE WELD DETAILS i.e. (A)
LETTERS AND NUMBERS IN SQUARES INDICATE RESISTANCE WELD STRENGTH IDENTIFIED IN THE QUALITY CONTROL PROGRAM i.e. R1



Es END (COLUMN)



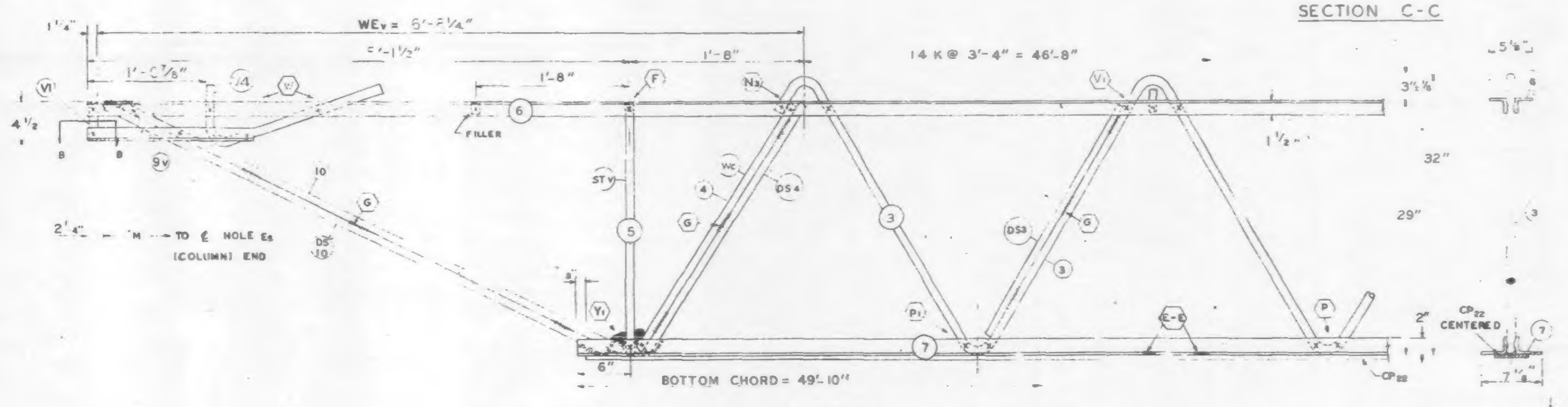
SECTION A-A



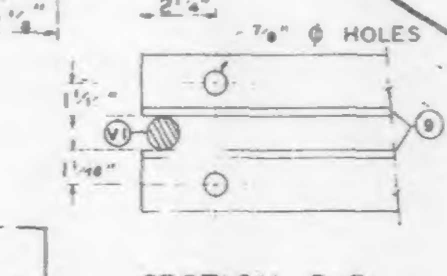
SECTION C-C

DAMPING UNIT CONNECTION PLATE ATTACHED TO BOTTOM CHORD (COL END) IN FIELD. ASSEMBLY BY OTHERS

VOID



EL END (CORE)



SECTION B-B

NO.	DATE	REVISION	BY

Truss length not reqd

REF DRWG.

7-AB1-28	1-6-69
7-AB4-50	8-1-68
7-AB3-41	1-6-69
7-AB1-53	7-22-68

PAINT
LACLEDE ELECTROCOAT
REQ. NO. 10001

TRUSS DESIGNATION	TOP CHORD TWO ANGLES				BOTTOM CHORD TWO ANGLES				MAIN WEB "W"					FILLER		"M" C/C HOLES	CONNECTION FILLERS			CHORD PLATE				CHORD PLATE			
	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	CHORD SIZE	LENGTH	MK	TYPE STEEL	DIA	LENGTH	NO. OF K	NO.	DIA		NC	DIA	LENGTH	MK	TYPE STEEL	SIZE	LENGTH	MK	TYPE STEEL	SIZE	LENGTH
C32T40C 598	6	A242	2"x1½"x.37	59'-8"	7	A36	3"x2"x.37	49'-10"	3	A242	1.14	88'-1¼"	14 @ 3'-4" = 46'-8"	11	1.14	5'-2¾"	4	1.14	3"	CP22	A36	6½"x½"	45'-6"	CP30	A36	6½ x 50	3'-5"

COLUMN END

Es END	TRUSS DESIGNATION	BEARING ANGLES				WE	DIAGONAL "T" STRUT				VERTICAL "ST" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V3			DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	DIA	LGTH.
	C32T40C 598	9	A242	2"x1½"x.37	2'-3"	6'-1¼"	1	A242	1.14	6'-3⅛"	2	A242	1.14	2'-4⅞"	A242	1.14	4⅜"	A242	1.14	2'-9½"	DS1	A242	.92	6'-3⅛"

CHECK DIMENSION FOR TRUSS FAB. LOCATION OF TRANS. TRUSS				
CL-1	CL-2	CL-3	CL-4	Fs
9'-6½"	22'-10½"	36'-2½"	49'-6½"	5'-2½"

CORE END

EL END	TRUSS DESIGNATION	BEARING ANGLES				WEv	DIAGONAL "Tv" STRUT				VERTICAL "STv" STRUT				END STIFFENER MK. V1			END STIFFENER MK. V2			END STIFFENER MK. V4			WEB "Wc"					DOUBLE STRUT				DOUBLE STRUT				(3) DOUBLE STRUT			
		MK	TYPE STEEL	CHORD SIZE	LENGTH		MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	TYPE STEEL	DIA.	LENGTH	MK	TYPE STEEL	PCS	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH	MK	TYPE STEEL	DIA	LENGTH
	C32T40C 598	9	A242	2"x1½"x.37	1'-6"	6'-2¼"	10	A242	1.14	5'-4⅛"	5	A242	1.14	2'-4⅞"	A242	1.14	4⅜				A242	1.14	2'-2½"	4	A242	1	1.14	2'	DS6	A242	.92	2'-9½"	DS10	A242	.92	5'-4¼"	DS3	A242	.92	2'-6¾"

STEEL TRUSS - DETAILS
FOR
WORLD TRADE CENTER - N.Y.C.
FOR
THE PORT OF NEW YORK AUTHORITY

FLOOR TRUSS C32T40C 59'-8" OVERALL
WORLD TRADE CENTER TOWERS A & B

FABRICATION BY: LACLEDE STEEL COMPANY

FABRICATED AT: MADISON, ILLINOIS		DESIGN DRAWING NO. 7-AB1-38	PLATE
APPROVED FOR FABRICATION BY: ______ FOR P.O.N.Y.A.	DATE	DRAWN BY: [illegible] DATE: APRIL 29, 1969	
APPROVED FOR FABRICATION BY: ______ FOR FABRICATOR LACLEDE STEEL CO.	DATE.	CHECKED BY: T.N. CHURA DATE: APRIL 29, 1969	IN CHARGE OF PROD. DEV.
DETAILED BY: A.C. WEBER		FABRICATION CONT. NO. W.T.C. 221	SHEET NO. ST240C